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The
CHEMIST AND DRUGGIST
or RETAILER - WHOLESALER - MANUFACTURER

MAY 8, 1948

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pyranisamine maleate BRAND

a recent advance in the treatment of allergic conditions

NTHISAN ' is a substance with a powerful antihistaminic activity d of low toxicity. Following encouraging reports on its use in the atment of serum sickness, angio-neurotic oedema, hay fever, omotor rhinitis and allergic n conditions it is now made ilable as follows.

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distributors
ARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

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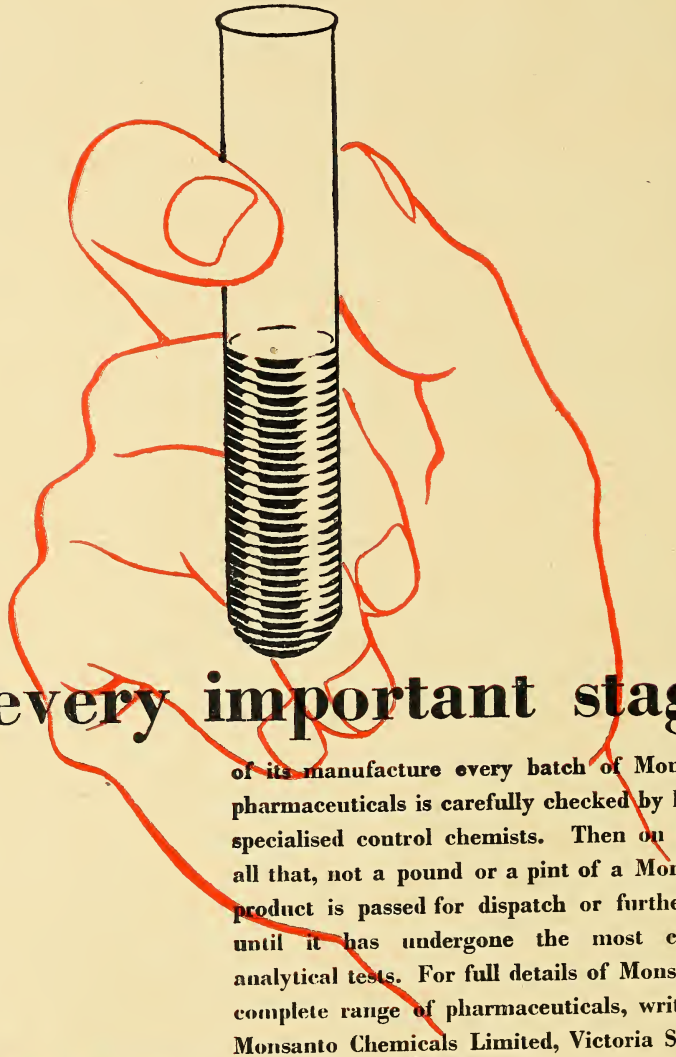

At every important stage

of its manufacture every batch of Monsanto pharmaceuticals is carefully checked by highly specialised control chemists. Then on top of all that, not a pound or a pint of a Monsanto product is passed for dispatch or further use until it has undergone the most critical analytical tests. For full details of Monsanto's complete range of pharmaceuticals, write to: Monsanto Chemicals Limited, Victoria Station House, London, S.W.1.

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SUNNY DAYS *mean* BUSINESS

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— delicately perfumed, containing benzyl salicylate. Cost: 10/- per dozen, plus 100 % P.T. Special price for 6-doz. lots: 9/9 per doz.

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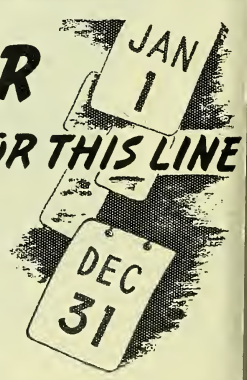

Sensible people can easily see the advantage of dealing with colds before they catch them! So turn the very effective cold immunising qualities of PILLODINES to your advantage—keep your PILLODINE counter-displays to the forefront. You will find that the PILLODINE 30-day cold immunising treatment will sell nearly as well during the long sunny days as it does during the short dull ones!

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If you cannot get all the supplies of Moorlands you want write and let us know your requirements. We will do our best to help you as reasonable supplies are available for the wholesale and retail drug trade. No one need be out of stock of this quick-selling all-the-year-round line. Link up with our national advertising by regular counter display. There's a big future in Moorlands.

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for colds, headaches, feverish conditions, etc.

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Lip Salve
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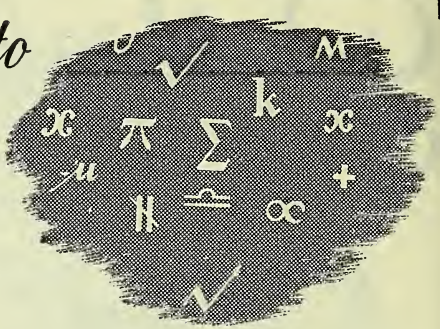
Getting down to fundamentals



'FOLVRON,' Folic Acid and Iron Tablets supply the haematinic fundamentals, folic acid—the maturation factor for red cells (or its immediate precursor) and ferrous iron —principal building stone of haemoglobin. It is therefore valuable in both primary and secondary anaemias, particularly those showing marked iron deficiency. Doctors are now prescribing folic acid and iron in the form of 'FOLVRON' Tablets and pharmacists are invited to order for stock.

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Folvron

BRAND OF

FOLIC ACID and IRON

'Folvron' trade mark applied for.

'Folvite' Folic Acid, 1·7 mg.; ferrous sulphate exsiccated, 3 grains. Bottles of 30, 100, 500 and 1,000 tablets.

Lederle Laboratories DIVISION

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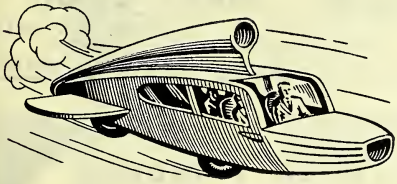

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including
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supplied in convenient quantities from 100 upwards

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Per Dozen	Display Terms	Pur. Tax
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2/6 Zamcones	16/-	6/-

As an introductory offer, an additional 5% on the above terms will be given to all direct buyers on minimum orders of one dozen of either product.

In bright, tasteful outers for counter display

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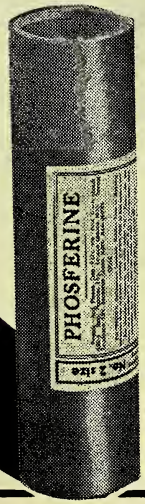
The Greatest of All Tonics—



WITH A WORLD-WIDE REPUTATION

The familiar Phosferine pack has won for itself an enviable world-wide goodwill. It has only to be shown to be sold. And the sales of Phosferine prove how adequately "The Greatest of all Tonics" lives up to its claims. Make the most of the wonderful popularity of Phosferine by ensuring that your stocks are adequate to meet the demand.

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TABLETS and LIQUID

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When conditions call for *natural* Vitamin C

In vitamin C potency alone the case for the homely blackcurrant is about 3 to 1 against the imported orange.* Unfortunately supplies of blackcurrant syrup are limited and the Ministries of Food and Health have asked that they be reserved for special classes.

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have first priority. In cases of febrile illness, ulceration, etc., where the vitamin C intake is reduced by dietary restrict ons, Ribena Blackcurrant Syrup is generally found acceptable and beneficial.

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call for additional vitamin C to meet the needs of the new life. Not only is Ribena well tolerated as compared with other natural sources of vitamin C; the bland wine-like flavour is often found to satisfy pregnancy "cravings."

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who so frequently show reluctance for green vegetables, usually welcome the natural fruit flavour of Ribena.

* Fixsen & Roscoe figures: Blackcurrant juice 136-220 mg.: Orange juice 22-89 mg. per 100 gm.

Ribena
BLACKCURRANT SYRUP

(Not less than 20 mg. ascorbic acid per fl. oz.)

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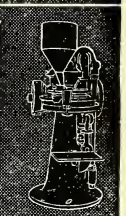

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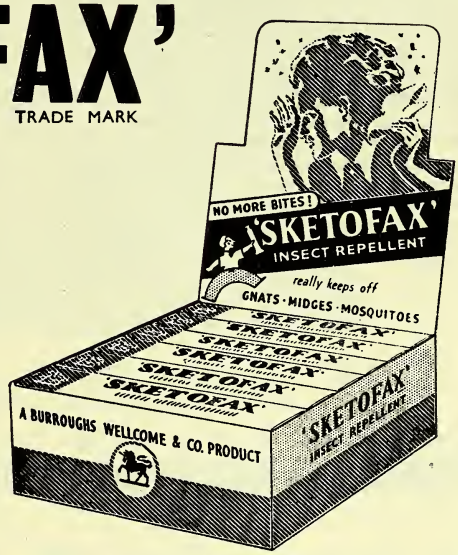

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No. 3559 Volume CXLIX

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NEWS OF THE WEEK

N.H.S. Staff Superannuation.—A booklet describing a superannuation scheme for employees of the National Health Service is being distributed free to entrants.

K.I.D. Exemptions. — Under a new Order (S.I., 1948, No. 852), oxalic acid dicyclohexyl phthallate, dicapryl phthallate and tricresyl phosphate are exempted from Key Industry Duty for the period May 3 to August 19.

D.B.A. Examination Results.—The following were successful in examinations for the Diploma in Biochemical Analysis held in Edinburgh in April: Arnold Arthur, Kathleen Ward Davies, Frank Hepburn and Robert Wallace Orr.

Registered Pharmacists' Union.—The following officers of the Registered Pharmacists' Union have been elected: *President,* Mr. R. G. Collins, Birkenhead; *Vice-president,* Mr. G. H. Sheard, Dartford; *Treasurer,* Dr. D. J. Gibson, London; *General Secretary,* Mr. G. H. Armitage, 55 Russell Square, London, W.C.1.

Scottish Health Services Council.—The Secretary of State for Scotland has issued regulations (S.I., 1948, No. 844 (S.56)) prescribing the periods for which members of the Scottish Health Services Council and of any Standing Advisory Committee constituted under the National Health Service (Scotland) Act, 1947, are to be appointed.

Tar Distillers' Association. — At the annual meeting of the Association of Tar Distillers recently, the following officers were elected: *President,* Mr. W. A. Walmsley (Thomas Ness, Ltd.); *Vice-president,* Mr. C. Lord (Lancashire Tar Distillers, Ltd.); *Treasurer,* Capt. C. W. Harriss (Burt, Boulton & Haywood, Ltd.).

Chemicals from Oil.—A large new chemical plant at Wilton, Yorks, for which Imperial Chemical Industries, Ltd., have set aside £17,000,000, is now well advanced. The works will produce materials for the plastics industry and will include a petroleum cracking plant producing hydrocarbon gases for the manufacture of organic chemicals.

National Insurance for Students.—All students aged eighteen and over become

liable to pay National Insurance contributions from July 5. If not already insured under a State scheme, they should apply for a contribution card on form C.F.6 (see *C. & D.*, May 1, p. 553). Students whose total annual income does not exceed £104 may claim exemption from liability to pay contributions (on form N.I.27, obtainable from local National Insurance offices and Employment Exchanges) but nevertheless require a contribution card. The Ministry of National Insurance is expected to announce later full details about the granting of exemptions.

London Chamber of Commerce. — At the annual meeting of the London Chamber of Commerce on April 27, the president (Sir Frank Newson-Smith, Bart.) was re-elected. The 1947 annual report runs to 112 pages and covers all the activities of the Chamber during the year, including the fifty-seven trade sections of the Chamber, among them the following, with their chairmen: Botanical Drug Import Merchants' (Major N. A. Johns); Bristle (Mr. H. S. Wheatley); Dentifrice Manufacturers' (Mr. J. R. Williams); Essential Oil Importers' (Mr. K. C. Allen); Import and Export Merchants' (Mr. P. G. Donald); Toilet Soap Millers' (Mr. G. R. English).

"Health of the People" Exhibition.—An exhibition under the title above has been produced for the Ministry of Health by the Central Office of Information at the Government Exhibition Site, Mount Royal, Oxford Street, London, W.1, May 6 to June 5. A historical section depicts the development of public health and sanitation legislation from the Public Health Act, 1848, to the operation, from July 5, 1948, of the new National Health Service Act. A section illustrating present-day medical services includes an exhibit on the supply of medicines; it was designed with the co-operation of Dr. H. Davis (chief pharmacist, Ministry of Health), and depicts a prescription, written on what is possibly a specimen N.H.S. script form, for linct. scill. opiat. and tab. digit. pulv. Actual samples of the required drugs are on show, with a map indicating their geographical sources. Two final pictures show a dispenser at work (in what looks like a khaki overall), and the finished medicines being handed to the patient. A "mechanical man" demonstrates and explains the working of the human body, and a final feature is a press-button quiz which answers questions on the National Health Service.

LOCAL NEWS

Manchester Chemists' Golf. — The Manchester Pharmaceutical Golfing Society opened its season at Chorlton Golf Club on April 28 with a competition for prizes presented by the captain (Mr. F. C. Baines). The winners were Messrs. T. Clarke (70) and H. Gibbs (74) after a tie with Messrs. J. Taylor and D. Stewart (each 74).

Newcastle Officers. — At the annual meeting of the Newcastle and Northumberland Branch of the Pharmaceutical Society on April 23, the following officers were elected: *President,* Mr. A. McGuckin; *Vice-president,* Mr. R. V. Atkins; *Treasurer,* Mr. A. McOlvin Laws; *Secretary,* Mr. J. G. Robson, 161 Cartington Terrace, Newcastle-on-Tyne, 6.

Birdsgrove House's "Birthday."—The second anniversary of the opening of the Pharmaceutical Society's convalescent home, Birdsgrove House, was celebrated there on April 29. Convalescent patients in residence were joined at tea by some forty friends from Mayfield, Clifton and Ashbourne. Two candles on an elaborate "birthday" cake were lit by Miss M. C. Jones (warden of the home).

London Chemists' Golf.—At the first seasonal meeting of the London Chemists' Golfing Society at Crews Hill on April 28, boisterous weather prevailed and scoring was unusually high. The medal round for the Kerfoot trophy was won by Mr. J. Deas with 76 net. A bogey competition for the D. & W. Gibbs prize was won by Mr. R. Juillard (6 down) after a tie with Messrs. H. R. Nightingale and G. T. Morson.

Aberdeen Annual Meeting. — At the 109th annual meeting of the Aberdeen Pharmaceutical Association recently, the following officers were elected: *President,* Mr. W. T. Elder; *Vice-president,* Mr. J. Neil; *Treasurer,* Mr. E. S. Stephen; *Secretary,* Mr. J. Conn, 471 Great Western Road, Aberdeen. The meeting was attended by Dr. D. McCall (assistant secretary, North British Branch) and Mr. A. J. Plowright (assistant secretary of the Society). In a discussion on the National Health Service, the absence of representatives of employee pharmacists on the Whitley Council was criticised.

Addresses by Junior Members.—Four junior members gave talks at the annual meeting of the Nottingham Branch of the Pharmaceutical Society held on April 27.

Miss E. A. Akroyd, who spoke of her experiences as a locum tenens in various parts of the country, had several suggestions to offer would-be employers. Mr. D. E. Hulme described the Assam to China air route, developed during the recent war when the Burma Road was closed. Mr. E. Strzyzyk, formerly a teacher in Poland and now a pharmaceutical apprentice in Britain, recounted his experiences in a concentration camp. Mr. C. E. Willis described a visit to the glassworks of Chance Bros., Ltd. At a committee meeting held later the following officers were elected or re-elected: *Chairman,* Mr. W. O. Ayers; *Vice-chairman,* Miss G. M. Watson; *Treasurer,* Mr. W. G. Hollis; *Secretary,* Mr. W. E. Newbold, 2 Chapel Bar, Nottingham.

Chester Annual Meeting. — At the annual meeting of the Chester Branch of the Pharmaceutical Society held on April 8, the following officers were elected: *Chairman,* Mr. J. Williams; *Vice-chairman,* Mr. O. Pritchard; *Treasurer,* Mr. G. Little; *Secretary,* Mr. J. Gerry, 4 Eastgate Row, Chester. A suggestion that the British Pharmaceutical Conference should be invited to visit Chester was discussed. A proposal was adopted on the motion of Mr. A. W. Austin that business meetings of the branch should be convened at least four times a year, fully seven days' notice being given. Another proposal by Mr. Austin, that post-graduate courses should be arranged and monthly meetings held for the reading of papers of general interest, was amended, and it was left to the committee to discuss the cost.

Aberdare N.H.S. Discussion. — At a meeting of the Aberdare and Merthyr Branch of the Pharmaceutical Society held at Aberdare on April 7, Mr. H. Noel Thomas (chairman) presiding, Mr. I. E. Thomas, J.P., M.P.S., and Mr. J. Llewellyn Williams, M.R.C.S., L.R.C.P. (medical officer of health for Aberdare), spoke on "Local Health Services." Mr. Thomas (who has been a member of the Glamorgan Pharmaceutical Committee for thirty-five years) surveyed the work of the committee since its inception, dealing with it from a pharmacist's point of view. Dr. Williams spoke from the standpoint of the local authority; he also gave details of the new National Health Service Act. A vote of thanks to the speakers was proposed by Mr. H. Parry, Nelson, and seconded by Miss G. Humphries, Trecynon.

SCOTTISH NEWS

Kinninmont Prize Examination.—The annual competition for the Kinninmont prize (a scholarship, value £10 10s., tenable at the Royal Technical College, Glasgow) is to be held in June. The competition is open to all students in the area covered by the Glasgow and South-western Scottish Branch of the Pharmaceutical Society who are attending or have attended an approved course for the Intermediate examination. The prize is awarded on the result of a written examination in chemistry, physics and botany. Intending candidates should send their names to Mr. Robert McAdam, 1051 Dumbarton Road, Glasgow, W.4.

Award and Lecture.—At the annual meeting of the Society of Chemical Industry to be held in Edinburgh, July 12-17, the Messel medal is to be presented to Sir John Anderson, F.R.S., who is to speak on "Science in Relation to the Public Services." The Lister Memorial lecture is to be given by Sir Robert Robinson (President of the Royal Society) on "The Device of Imitation of Molecules in the Biological Field." The programme includes visits to the pharmaceutical works of T. & H. Smith, Ltd., and the dyestuffs and pharmaceutical works of Imperial Chemical Industries, Ltd., Grangemouth.

Glasgow Annual Meeting.—Mr. R. M. McCrone (chairman) presided at the annual meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society held in Glasgow on April 14. It was reported that membership in May 1947 had been 1,365, an increase of ninety-nine. Mr. McCrone said that the branch prize fund now totalled £263 but more contributions were wanted. During the year the Kinninmont prize had been won by Mr. T. Thomson, with Mr. A. G. Price runner-up, and the Anthony McMillan memorial medal by Mr. D. Dunn. A liaison committee had been set up with the Glasgow Pharmacy Club. Six branch meetings had been held during the winter, with district meetings at Hamilton and Dumfries. The following officers were elected: *Chairman,* Mr. S. Hughan; *Vice-chairman,* Mr. S. G. Home; *Secretary and Treasurer,* Mr. Andrew Officer; *Librarian,* Mr. T. Newton. In response to a suggestion that a general meeting of pharmacists should be held to discuss the National Health Service, the chairman pointed out that only twenty-one persons had attended a meeting called for the purpose in February.

IRISH NEWS

Ulster Associates.—At a meeting of the Executive Committee of the Associates' Section of the Ulster Chemists' Association held in Belfast on April 22, Miss Margaret Meneely, Ph.C., was co-opted as a member in place of Mr. N. D. Moore, who had resigned. The following were approved for associate membership: Mr. W. M. Bruckshaw (pharmaceutical chemist), Messrs. H. Downey and J. M. Smyth (assistants); Messrs. L. Kaitcer, J. McIlreevey and Brendan McCann (apprentices).

P.D.A. Examinations in Dublin. — The first Photographic Dealers' Association intermediate examinations to be held in Eire since the war took place in Dublin on April 28. There were twelve candidates and the examiners were Messrs. R. C. McKechnie, Edinburgh, and B. A. MacFarlane, Llandudno, assisted by Messrs. P. F. McGrath and Lyall G. Smith (secretary, Eire Branch, P.D.A.). Messrs. J. J. Roche (chairman, Eire Branch, P.D.A.) and P. A. Brady (president, Pharmaceutical Society of Ireland), were present during the examination.

New Lurgan Association. — A Lurgan chemists' association (a branch of the Ulster Chemists' Association) was inaugurated at a meeting in Lurgan on April 22. A delegation from Belfast was composed of Messrs. John McGregor (president, Pharmaceutical Society of Northern Ireland), J. C. Acheson (president, Ulster Chemists' Association), and Robert Gibson (a past-president of the Association), and Miss A. E. Strachan (secretary, Ulster Chemists' Association). Mr. Robert Kerr was elected *Chairman* of the new association, and Mr. J. G. McCluskey, 30 Church Place, *Secretary and Treasurer*. It was agreed that from May 1 chemists' shops in Lurgan should close on Saturdays at 8 p.m. (instead of at 9 p.m.), and that they should close 1.30-2.30 p.m. daily except Saturdays.

Royal Dublin Society's Show.—Exhibitors at an industrial exhibition held in conjunction with the Royal Dublin Society's spring show which took place in Dublin, May 4-8, included: Henry Bell, Ltd., Waterford (veterinary medicines and instruments); James Crean & Son (household, toilet and shaving soaps); Dawn, Ltd. (cosmetics); Day, Son & Hewitt (Ireland), Ltd. (veterinary medicines, etc.); Maurice Fitzgerald & Co., Ltd. (and Splendor (Ireland), Ltd.) (proprietary medicines, etc.); Gala of London, Ltd. (cosmetics); Imperial Chemical Industries (Export), Ltd., and Imperial Chemical (Pharmaceuticals), Ltd. (chemicals, veterinary medicines, etc.), the Iodine Educational Bureau (illustrating the veterinary applications of iodine); Irish Glass Bottle Co., Ltd. (medicine and toilet bottles, glass shelving, etc.); Jeyes Sanitary Compounds Co. (Saorstat Eireann), Ltd. (disinfectants, insecticides, etc.); Mountmellick Products, Ltd. (malted milk, etc.).

OVERSEAS NEWS

Mexican Pharmaceutical Industry.—The Mexican Government is understood to be considering import tariffs to protect the domestic pharmaceutical industry.

Canadian Exports. — Canada exported chemicals in February to a total value of $5,784,000 (medicinal preparations, $434,000).

Korea Penicillin Factory. — The Korean port of Kachsiung has been selected as a site for factories to manufacture penicillin and DDT under the control of the World Health Organisation.

German Price Revision. — German economic experts recommend that prices of a wide range of goods and services, including chemicals, should be increased in Western Germany as a preliminary to currency reform.

Procaine Penicillin in U.S. — The United States Food and Drug Administration regulations now permit the use of a specified hardening agent in preparing procaine penicillin in oil. The agent is a refined hydrogenated and deodorised oil, free from rancidity, with an iodine value of not more than 10, a free fatty acid content (as oleic acid) of not more than 0.1 per cent., and a melting-point of 64° C., plus or minus 2° C.

Italy and Olive Oil Exports.—Italy has exported about 2,500 tons of the new olive oil crop to the United States and Switzerland following a recent decision by the Ministry of Foreign Trade to permit the sale of olive oil abroad at a fixed rate of 106 dollars or 449 Swiss francs a quintal. The exporters, however, are required to obtain an equivalent quantity of foreign seed-oil or oil-seeds during 1948. Meanwhile, domestic prices for olive oil have been advancing and at the middle of February ranged from 300 to 460 lire per litre, according to the district.

TOPICAL REFLECTIONS

New British Pharmacopœia

The prospective publication of a new British Pharmacopœia is always "front-page" news for your readers. The demands of contemporary science expect satisfaction; and existing stocks have to be examined by manufacturers, retailers and hospital pharmacists so as to obviate or minimise loss. It is of interest to compare the intervals between issues of British Pharmacopœias from 1867 to 1948: the figures are 18, 13, 16, 18, and 16 years. When the 1932 Pharmacopœia appeared, it was hoped that a ten-yearly interval of publication would become the rule. Any regret that this interval has (for an obvious reason) been extended by six years is neutralised by satisfaction that the burden of seven Addenda is about to be removed. These slim volumes must have caused their users more worry than most features of war-time business. In spite of the restriction on your space you have made a helpful beginning with a review of and a comment on the book (pp. 564, 569). Clearly the new B.P. is in general arrangement an advance on its predecessors, and the demand for copies will probably be heavy. For this result we are greatly indebted to the pharmacists on the Pharmacopœia Commission of the General Medical Council. While we have a natural desire that the best practice of the day shall be exemplificd in our Pharmacopœia, too much importance should not be attached to its being quite up to date. To what extent the book is co-ordinated with the United States Pharmacopœia I do not yet know; but that ideal has no doubt been kept in mind.

Advertisement Standards

The "British Code of Standards in relation to the Advertising of Medicines and Treatments" (p. 559) is an important contribution to a much-discussed subject. It may be recalled that the Medicines and Surgical Appliances (Advertisement) Bill which was dropped in the House of Commons in 1936 for lack of a quorum continued a longer list of diseases and ailments forbidden to advertisers than afterwards appeared in the Pharmacy and Medicines Act. That Bill had been drafted with the agreement of various professional and trade institutions, among them the British Medical Association and the Wholesale Drug Trade Association. The signatories to the present code are less numerous, but include some new and welcome names. The increasing stringency of the conditions laid down in it is unmistakable. One section comprises a lengthy series of complaints in respect of which no offer of medicine or treatment may be advertised: all these complaints are additional to those in the Pharmacy and Medicines Act, 1941, the Cancer Act, 1939, and the Venereal Disease Act, 1917. The code emphasises the need for a very high standard in this type of advertisement; newspapers are urged not to accept announcements drawn up in disregard of such a standard. Whether this action by several influential bodies will satisfy the canons of the B.M.A. I do not know: I suggest, however, that it should have the Association's concurrence, and is likely for some time to come meet the wishes of all concerned.

A Parallel

Your quotation from "Romeo and Juliet" on p. 584 brings to mind a parallel. To the best of my knowledge it has never been pointed out—though, as two great poets are involved, it may have been. Nearly as well known as Shakespeare's description of the interior of an apothecary's "needy shop" are the lines in Burns's "Death and Dr. Hornbrook," written about two centuries later, enumerating various items in the stock of a Scottish apothecary. No model has, I think, been proposed for Shakespeare; but Burns is said to have been satirising one John Wilson, a parish dominie conducting an apothecary's business as a sideline. We need not suppose that Burns consciously drew on the "Romeo and Juliet" passage; such coincidences of subject are fairly common in literature, and "subconscious memory" has been posited as an explanation of some of them. The main point of pharmaceutical interest in the parallel is the change from the animal and vegetable materia medica of the late sixteenth century to the predominance of chemical substances noted in an apothecary's stock in the late eighteenth century. In place of the alligator, the musty seeds and so forth Burns has "Cakes o' forsils, earth and trees, True sal-marinum o' the seas . . . Aqua fortis, what you please . . . Urinus spiritus of capons, Of mitehorn shavings, filings, scrapings, Distilled per se . . . And mony mae." In both quotations we may note the technical mastery of the verse-scheme.

Xrayser

COMPANY NEWS

JACKSON CHEMISTS, LTD. (P.C.).—Registered in Belfast. £2,000. To carry on the business of chemists and druggists, etc. Patrick Jackson, director, 20 West End Park, Derry.

SHEAF PHARMACEUTICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of chemicals, drugs, medicines, etc. Reginald V. Moore and Beatrice M. Moore, directors. R.O.: 4 South Street, Sheffield, 2.

J. K. LYONS, LTD. (P.C.).—Capital £500. To acquire the business carried on at 182 Coldharbour Lane, S.E.5, and to carry on the business of chemists and druggists, etc. Agnes Lyons and John Carson, directors.

MARK F. BURGIN, LTD. (P.C.).—Capital £5,000. To carry on the business of wholesale and retail chemists, etc. Millicent I. Wright and Richard Renwick, M.P.S., directors. R.O.: 54 Coney Street, York.

JOHN FIRMINGER & CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of toilet requisites and preparations, chemists, etc. Charles Firminger, John Firminger and Arthur J. F. Kenyon, directors. R.O.: Harwell, Berks.

F. J. HONE & PARTNERS, LTD. (P.C.).—Capital £2,500. To carry on the business of manufacturers of appliances and plant for the chemical industry, etc. Francis J. Hone and Francis L. Walker, directors. R.O.: Research Laboratories, Godstone Road, Whyteleafe.

AYRTON, SAUNDERS & CO., LTD.—Net profit for 1947 after provision for taxation amounts to £47,336, against £38,001. The ordinary dividend is maintained at 10 per cent.

GREEFF-CHEMICALS HOLDINGS, LTD. — The company has offered 300,000 new ordinary shares of 5s. each to shareholders registered on April 19 at 12s. 6d. per share in the proportion of three new shares for every five units of 5s. each held.

BARCLAY & SONS, LTD.—Mr. F. A. S. Gwatkin, Sir John S. V. Marling, Bart., the Hon. Thomas M. Hazlerigg, Mr. D. P. Lochhead and Mr. L. H. Pardoe have joined the board of directors. The company states that there is no association with any other wholesale house.

BUSINESS CHANGES

MR. K. CHARNLEY, 772 Whalley New Road, Blackburn, has been appointed by Vitamins, Ltd., Upper Mall, London, W.6, as the company's representative for north and east Lancashire.

MR. ROBIN WALKER has joined the sales executive of Gillette Industries, Ltd., Syon Lane, Osterley, Isleworth, Middlesex.

LONDON CO-OPERATIVE CHEMISTS, LTD., are transferring their buying and administrative offices to Grange Road, Leyton, London, E.10, on May 10.

MR. KENNETH CARTER, M.R.C.S., L.R.C.P., M.P.S., has resigned his appointment as research liaison officer and secretary to the Therapeutic Research Corporation of Great Britain, Ltd., to join the directorate of an Argentine subsidiary of Glaxo Laboratories, Ltd.

LEGAL REPORTS

Disclaimer. — Richard G. Mumford & Co., Ltd., manufacturing chemists, Kingsway, Hove, Sussex, point out that the paragraph "Official Referee Decides" published under Legal Reports (*C. & D.*, May 1, p. 556) and relating to Mumford & Co., Ltd. (in liquidation), has no connection with the present company.

Theft from Dublin Pharmacy.—In the Dublin district court, recently, James Daly, Dublin, was sentenced to two months' imprisonment for stealing an electric razor, some blades and cash from a branch pharmacy of Hayes, Conyngham & Robinson, Ltd., chemists, Dublin. Mr. Patrick Crowley, L.P.S.I. (manager of the shop), stated that, when he opened the pharmacy on March 18, he noticed a broken glass panel on the outside door; a drawer behind the counter was pulled out and a back window was open.

Purchase Tax Offences.—At Clerkenwell magistrates' court, on April 14, Reginald Ernest Laws and Dennis Leonard Laws, both of 18 Firs Parade, Muswell Hill, London, N.10, pleaded guilty to three summonses for having made false purchase tax returns for the periods ended December 31, 1945, June 30, 1946, and September 30, 1946. Each was fined £100 on the first summons, £50 on each of the second and third summonses, and £10 10s. costs. For the Customs and Excise department it was stated that, as a result of information, an official of the department made a detailed examination of the returns and found some culpable omissions. He read a statement made by Mr. Reginald Laws, in which the defendant said that the reason for the omissions was that the brothers were short of cash needed to buy raw materials for a £5,000 order. It was their intention to disclose the underpayment after the Christmas trade, but investigations by the Board of Trade had resulted in cancellation of the order. Since the matter had been discovered, said the official, the defendants had been very helpful, and had already, out of a total unpaid sum of £703, paid £520 in several instalments. The magistrate said that the matter could not be viewed anything but seriously. There had been a frank admission; it came after the matter was discovered, but he found it difficult to accept the statement that somebody who had entered into a deliberate conspiracy to defeat the regulations intended at some future date to make good the omission.

MARRIAGE

McKelvey-Gilmour.—In Glasgow, on April 24, Arthur K. T. McKelvey, Glasgow, W.4, to Margaret Brown, daughter of Andrew B. Gilmour, M.B.E., M.P.S., 8 Hertford Avenue, Glasgow, W.2.

DEATHS

Andrews.—On January 19, Mr. Bertram Lancelot Marmaduke Andrews, M.P.S., 30 Harley Road, New Town, Great Yarmouth, Norfolk. Mr. Andrews qualified in 1904, and in 1943 became superintendent to the London Drug Co. (Henry Cole), Ltd., Eltham, London, S.E.9.

Arrowsmith.—On March 25, Mr. George Micklem Arrowsmith, Ph.C., Littlewick Lodge, nr. Maidenhead, Berks, aged seventy-six. Mr. Arrowsmith qualified as a chemist and druggist in 1895 and passed the Pharmaceutical Chemist examination the following year.

Blackford.—At a Brighton hotel in which he was living in retirement, on April 20, Mr. Walter Blackford, for approximately forty years sales representative of H. Bronnley & Co., Ltd., Acton Vale, London, W.3.

Bradley.—On April 25, Mr. S. W. Bradley, who for many years had been a most valued member of the technical staff of W. J. Bush & Co., Ltd., aged sixty-four. Formerly at Woolwich Arsenal, Mr. Bradley joined the company in November 1902. Later he became a member of the essential oil subcommittee of the Society of Public Analysts. Of outstanding ability, he was held in affectionate esteem by all associated with him in his work, both within and outside the company.

Brookes.—At the Isolation Hospital, Ilford, Essex, on April 22, Mr. Joseph Brookes, M.P.S., 2 Arthur Road, Chadwell Heath, Essex, aged eighty-three.

Davies.—On April 28, Mr. John Davies, M.P.S., Medical Hall, Barmouth. Mr. Davies qualified in 1914. He had been in business in Barmouth for many years and was a past-chairman of the local chamber of trade.

Denerley.—On April 14, Mr. John Denerley, M.P.S., 682 Aigburth Road, Cressington, Liverpool, 19. Mr. Denerley qualified in 1905.

Findlay.—On April 21, Mr. Alexander Ogilvie Findlay, M.P.S., 6 Severn Terrace, Newport, Mon, aged seventy-eight.

Grant.—In Dublin, on March 27, Mr. Peter Hames Grant, M.P.S., 29 Middle Street, St. Peter Port, Guernsey, Channel Islands. Mr. Grant qualified in 1914.

Hopkins.—Recently, Mr. Thomas Bartholomew Hopkins, L.P.S.I., proprietor of Hopkin's Medical Hall, Castle Street, Roscommon, Eire, aged thirty-seven. Mr. Hopkins served his apprenticeship at Huston's, Ballina, co. Mayo, of which county he was a native. He qualified in 1937, and opened on his own account in Roscommon a year later.

Hughes.—Suddenly, on April 27, Mr. Martin Smith Hughes, M.P.S., 203 County Road, Walton, Liverpool, 4, aged seventy-one. Mr. Hughes had been in business in County Road, Liverpool, for about forty years. A member of the Liverpool Chemists' Association since 1899, he had been treasurer of the Association and local branch of the Pharmaceutical Society for twenty-seven years. He was an original member of the Liverpool Pharmaceutical Committee. Sympathetic reference to his passing was made at the annual meetings of the Association and branch (see p. 609). Pharmacists were well represented at a Requiem Mass at the Church of the Blessed Sacrament, Liverpool, and at the interment at Kirkdale cemetery, April 30.

Hyde.—On March 5, after a long illness, Mr. James Edwin Hyde, M.P.S., 7 Wadborough Road, Sheffield, 11. Mr. Hyde qualified in 1901.

Lewis.—On April 17, Mr. Taliesin Lewis, M.P.S., 1 Pentreporth Road, The Cross, Morriston, Glam, aged fifty-eight.

McLaren.—At Falkirk Royal Infirmary, Falkirk, on April 25, Mr. Arthur McLaren, M.P.S., 145 Main Street, Camelon, Falkirk. Mr. McLaren qualified in 1897. A service was held at Birnam on April 28.

Pearce.—On December 22, 1947, Mr. Andrew Hingston Pearce, M.P.S., 2 Bridgwater Street, Whitchurch, Shropshire. Mr. Pearce qualified in 1902.

Reith.—On March 10, Major David William Reith, R.A.M.C., M.P.S., 53A Church Street, Aldershot, formerly of the Medical Branch H.Q., Highland District, Perth. Major Reith qualified in 1926.

Sim.—On March 30, Mr. William Duthie Sim, M.P.S., 43 Torcross Avenue, Wyken, Coventry, aged forty-nine.

Thompson.—On April 23, Mrs. Clara Jane Thompson, wife of Mr. Alfred T. Thompson, M.P.S., 12A Leigh Road, Leigh, Lancs, aged eighty.

TRADE NOTES

Additional Package. — Ciba Laboratories, Ltd., Horsham, Sussex, have introduced a 4-fl. oz. size of Antistin-Privine.

Ampoule Files.—Supplies in bright or cadmium finishes may be obtained from Jules Lang & Son, 96 Hatton Garden, London, E.C.1.

Laboratory Equipment.—Glass beakers, flasks, funnels, test-tubes, etc., are obtainable from Vicsons, Ltd., 148 Pinner Road, Harrow, Middlesex.

Again Available. — Milner & Coke, Ltd., Lewisham, London, S.E.13, are again able to supply their "original" G.O. orange-flavoured quinine tonic.

Tablets for the Trade. — Lever-Brailsford & Co., Ltd., manufacturing chemists, Radcliffe, Manchester, are in a position to supply and manufacture lozenges, tablets and medicated confectionery from suppliers' raw material.

Insecticide and Moth Preventive.—SECTO CO., LTD., Blackburn, issue a series of DDT insecticidal preparations. — THOMPSON & CAPPER WHOLESALE, LTD., Speke Hall Road, Liverpool, 19, have issued a colourful metallic showcard for Mothaks "guardians of the wardrobe."

Horticultural Specialities.—A range of horticultural products issued by May & Baker, Ltd., Dagenham, includes Bordeaux mixture; Cyclosan 4 per cent. calomel dust (for club-root and onion-fly control); D.N.C. winter wash (fruit-tree spray); grafting wax; Merfusan (mercury bichloride and calomel lawn dressing); Seradix (root-forming preparation); and Seradix B (hormone powder).

Summer Season Bonus Parcel. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, are giving an extra discount of 10 per cent. and bonus of thirteen to the doz. on three doz. bottles during the summer season on Crookes' Lactocalamine lotion.

"Twin-pack" Tooth-brushes. — John Freeman & Co., Ltd., Spa Works, Chesham, Bucks, have introduced a new "twin-pack" transparent carton containing two Spa toothbrushes; a "counter dispenser" with transparent cover holding two doz. packs is also available. Press advertising is in progress.

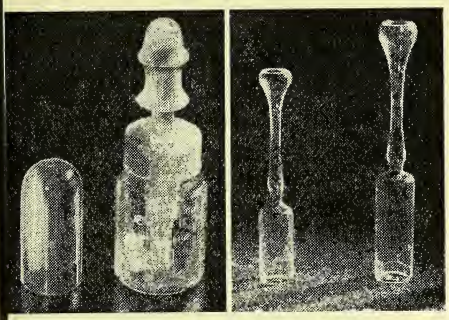
Return of Containers to Makers.—Keldon, Ltd., sales distributors for Optrex, Ltd., Wadsworth Road, Perivale, Middlesex, ask for the return of all empty skillets for Optrex eye lotion. To make return easy they have placed in each skillet a tag, already addressed to Optrex, Ltd., to be attached to the empty outer.

Genito-urinary Antiseptic. — Hexamandelate, a genito-urinary antiseptic marketed by Southon Laboratories, Ltd., and distributed by Chas. F. Thackray, Ltd., 10 Park Street, Leeds, 1, is claimed active at all urinary *p*H ranges without the addition of an acidifying agent and without the need for a ketogenic diet. The preparation is available in 12-oz. bottles.

Holiday Closings. — The head office, warehouse and works of RICHARD DANIEL & SON, LTD., will be closed from Friday evening, May 14, until Tuesday morning, May 18. The branch office and warehouse at Ashton-under-Lyne, Lancs, will remain open throughout Whitsuntide, but will close for local holidays from Thursday evening, May 20, until Tuesday morning, May 25. — The offices and warehouse of GENATOSAN, LTD., Loughborough, Leicestershire, will be closed Friday afternoon, May 14, until Wednesday morning, May 19 (urgent supplies from John Bell & Croyden, Wigmore Street, London, W.1).

At Toronto Fair. — Polak & Schwarz (England), Ltd., 50 Great Cambridge Road, Enfield, Middlesex, are exhibiting at the Canadian International Trade Fair to be held in Toronto from May 31 to June 12. Mr. K. Bohemen (a director) sailed on the "Queen Mary" on April 30. After a short visit to the associated company in New York, he will proceed to Toronto; Mr. Bohemen intends to remain in Canada for three to four months on market research problems, with a view to establishing the firm's own selling organisation. Mr. S. R. Mansfield (a director) will also be attending the Fair, sailing on May 18.

American Package Designs.—The nasal atomiser and ampoules illustrated were included in a section devoted to U.S. package design in a Design Fair that formed part of an Industrial Wales exhibi-



tion organised recently by the Council of Industrial Design, Tilbury House, Petty France, London, S.W.1. The nosepiece and plunger of the atomiser is of white plastic, with dome cover of transparent plastic.

Improved Supplies.—Improvements in manufacture and distribution have enabled Boon Doral, Ltd., Calder Street, Manchester, to make available their Boon antiseptic preparations in a revised post-war range; the sole distributors are A. M. Ashford, Ltd., Hunter Road, Sheffield, 6. —Dae Health Laboratories, Ltd., 17 Berners Street, London, W.1, announce that improved (though still restricted) supplies of Veet depilatory are available; Press advertising is in progress.—Scrubb & Co., Ltd., state that Scrubb's cloudy ammonia is in full supply. It can be delivered in any quantity to any stockist. The preparation is being nationally advertised.—T. J. Smith & Nephew, Ltd., Neptune Works, Hull, state that the 1 in. by 1 yd. sizes of Elastoplast plasters are in free supply to meet the increased summer season demand.

Price Changes.—Announcements by the Charles H. Phillips Chemical Co., Ltd., 179 Acton Vale, London, W.3, and of Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, on other pages of this issue, give details of products available at reduced prices in consequence of recent Budget changes in purchase tax rates.—The directors of Imperial Chemical Industries, Ltd., London, W.1, have reduced prices over a wide range of products. As a result of the decision more than £1,000,000 will be saved to customers of the company during the next twelve months. Some reductions will be in specific prices; others will made as a percentage reduction in ranges of goods. Customers will be advised of details.—Price lists of cosmetic and perfumery products, giving details of new prices resulting from the recent Budget changes have been published by Dellwood, Ltd., 66 New Bond Street, London, W.1, and Henry Tetlow Co., Ltd., Beresford Avenue, Wembley, Middlesex (Swandown cosmetics).—From May 1 the prices of Mycil ointment and dusting powder are being reduced by the manufacturers, The British Drug Houses, Ltd., Graham Street, City Road, London, N.1.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Lehn & Fink Products, Ltd.*, Osyl antiseptic, 1-gall., 104s. doz., tax 33⅓ per cent., inclusive retail price 14s. 6d.

Lintox, Ltd. (Agents: *A. F. Sherley & Co., Ltd.*), Lintox, 24s. doz., tax 33⅓ per cent., i.r.p. 3s. 8d.

New Era Treatment Co., Ltd., Elasto "nature" salve, 106s. 8d. doz., tax 33⅓ per cent., i.r.p. 16s. 3d.; Nervone tablets, 21s. 4d. doz., tax 33⅓ per cent., i.r.p. 3s. 3d.

Voltas, Ltd., Voltasyn (synthetic soap solution), 21s. 9d. doz., 2s. 5d. (exempt from tax).

Wm. R. Warner & Co., Ltd., Gelusil tablets (dispensing), 500's, 200s. plus tax; price to medical profession (including tax), 25s. 6d.

Alterations (Part 1).—*D.D.D. Co., Ltd.*, Prices in Eire (Distributors: *Henry Finn & Co., Ltd.*, Dublin), D.D.D. Prescription, 31s. 6d. doz., 3s. 6d.; 49s. 6d. doz., 5s. 6d.

H. R. Napp, Ltd, (correction), Abecedin tablets, 21's, 38s. 3d. doz., not as previously quoted; Sedonan, 38s. 3d. doz., not as previously quoted.

St. Andrew Mills, Ltd. (Agents: *Chappell, Allen & Co., Ltd.*)., Camelia sanitary towels, size "standard" (loops or tabs), 14s. 11d. doz., i.r.p. 1s. 7½d.; size 1 (loops), 16s. doz., 1s. 8½d.; size 2, 18s. 9d. doz., 2s.; size 3, oversize (loops), 24s. 4d. doz., 2s. 7½d. (all exempt from tax).

Splendor, Ltd., Cropax foot aids, now known as Splendor foot aids; No. 9 arch supports, 8s. 6d. doz., 1s.; No. 21 callus remover and metatarsal support, 6s. doz., 9d.; No. 16, 7s. 6d. doz., tax 33⅓ per cent., i.r.p. 1s. 2d.; No. 17, 4s. 6d. doz., 6d. (exempt); No. 70, No Ingrow, 6s. doz., tax 33⅓ per cent., i.r.p. 10½d.

Vick International, Ltd. (Agents: *J. C. Gambles & Co., Ltd.*), Additional 5 per cent. to retailers on Vick vapour-rub now available on 8-doz. orders (one size only) instead of on 6-doz. assorted sizes; large size withdrawn.

Vocalzone, Ltd. (Agents: *Brooks & Warburton, Ltd.*), Vocalzone nasal capsules, 18s. doz., tax 33⅓ per cent., i.r.p. 2s. 9d.

Alterations (Part 2).—*A. Wander, Ltd.*, Ovaltine chocolate, 6s. 6½d. doz., 8d.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE Radioactive Substances Bill (see *C. & D.*, April 17, p. 492) received a second reading in the House of Lords on April 29. Moving it, LORD HENDERSON said its primary purpose was to secure protection for the health of workpeople and the public generally against the harmful effects of undue exposure to dangerous radiation. The Bill dealt with both natural radioactive substances (radium, radon and other natural elements), a whole range of artificially produced substances, and with radiation from certain types of apparatus, of which *x*-ray apparatus was the most widely known. Radioactive substances were used in industry as luminising agents; radium and radon were used in medicine in treating certain forms of cancer. Powerful *x*-ray tubes were used for a similar and for many industrial purposes. Natural radioactive substances were widely used in scientific research; and the artificial radon elements that would shortly become available would be of immense importance as research tools and for therapeutic purposes. The possibilities of injury to health if these substances were handled without the most stringent precautions, or by people not fully aware of the risks, ranged from minor burns to serious illness and even death. The Bill also proposed to prohibit the sale or supply to the public of medicines or toilet preparations containing more than a prescribed quantity of radioactive material, except by a doctor or dentist holding a licence for the purpose from one of the Health Ministries, or by a chemist under the authority of a prescription from a licensed doctor or dentist.

LORD CHERWELL commented that there had been some "quite ridiculous scares" in the newspapers about the terrible results that had been produced by new radioactive substances, "usually in factories that have not started working." Scientists were anxious to be well represented on the advisory committee, and felt anxiety lest they might be overweighted by civil servants.

Development of Inventions

The Development of Inventions Bill also received a second reading after LORD HALL had said that the Bill would fill a serious gap in the technical and industrial equipment of the country. Medical research presented some difficulty, he said, since the ethics of the profession prohibited its members from seeking any profit from a proprietary interest in medical products for the alleviation of disease. As a result, medical discoveries had been published for the free use of the world. But development of production methods of many drugs discovered had been done abroad, and had cost this country foreign royalties. Penicillin was a case in point, although here the failure to develop was due to war-time lack of facilities and labour. Licences granted under a patent afforded a valuable method of controlling the quality of vital medical products and of ensuring that they were made available to the public as freely and cheaply as possible. The Bill had the support of the Medical Research Council. A National Research Development Corporation to be created would have to seek the approval of the Board of Trade if it wished to engage in actual manufacture. The Corporation would be empowered to accept inventions resulting from public research. Inventions resulting from research in Government departments, and belonging therefore entirely to the Government, would be assigned to it. Nothing in the Bill destroyed the rights of research associations, but, if the people concerned were willing to assign them, or part of them, the Corporation would be prepared to negotiate suitable terms. The Corporation might patent at home or abroad any such inventions not already patented, might develop them by further experiment or pilot scale operation, and, at an appropriate stage, might licence them to domestic industry on terms calculated to secure the maximum benefit to the economy and a reasonable return to the Crown, or abroad on terms to bring in a good return to this country. The Corporation would take over such inventions as might be offered to it by medical and university researchers, and it was hoped that workers in those fields of research would be willing to consider taking out patents rather more freely than they had done in the past. The Federation of British Industries had been consulted, and had expressed certain views on the Bill. These would be considered.

LORD SWINTON said the dyestuffs industry had been killed by competition because no system of protection had been available. Under a system of protection the industry had later gone right ahead.

LORD MAUGHAM said the Bill would be a tremendous infusion of courage into people who had inventive minds.

PERSONALITIES

MR. J. W. MOFFITT, M.P.S., has been elected chairman of the Billingham, co. Durham, urban district council.

MR. ANTHONY BRYDEN-BROWN (sales manager of Goya, Ltd.) left Britain by air on April 29 for Australia, his native country, where he is to make a three-month business visit.

SIR ALEXANDER FLEMING, who is to visit Seville in June, has been elected an honorary member of the Seville Royal Academy of Medicine. He is to receive a gold medal of the Academy.

MR. H. N. BREAM, Ph.C. (chairman and managing director of A. de St. Dalmas & Co., Ltd., Leicester), is leaving Britain for a business trip to America and Canada. He is to return in mid-June.

MR. SYDNEY A. SHEPHERD (S. A. Shepherd & Co., drug merchants, Seething Lane, London, E.C.3) is leaving Britain for a business visit to Canada on May 12. While in the Dominion he plans to attend the Canadian Trade Fair, Toronto.

MR. A. L. BACHARACH, M.A., F.R.I.C. (head of the nutrition unit, research division, Glaxo Laboratories, Ltd., Greenford, Middlesex), has been appointed a member of the Chemistry Research Board of the Department of Scientific and Industrial Research. He has also been invited to serve on the committee of the First International Biochemical Congress, which it is expected will be held at Cambridge in August 1949.

NEW SCHEDULED POISONS

THE following changes in the Poisons Rules and the Poisons List come in force on May 10:—

To the First Schedule to the Poisons Rules and to Part I of the Poisons List are added:—

Curare, alkaloids of; curare bases (substituted for present entries which read "Curarine").

Amidone (*dl*-2-dimethylamino-4:4-diphenyl-heptane-5-one); its salts.

Carbachol.

Metopon (methyldihydromorphinone); its salts.

Sodium monofluoracetate.

Allylisopropylacetylurea is removed from the Seventh Schedule and added to the Fourth.

The Poisons (Colouring) Rules, 1936 which required specified poisons for use in agriculture and horticulture to be coloured) are replaced by a new Rule 14A, which requires the specified poisons (see below) also to be coloured when they are intended to be used for the treatment of any infestation. The new rule removes the exemption previously applicable to lead arsenate paste and powder. It is worded:

> It shall not be lawful to sell any poison included in the Sixteenth Schedule to these Rules [see below] which is intended for use as a weed-killer or in the prevention or treatment of infestation by animals, plants or other living organisms unless there has been added to the poison a dye or other substance which renders it of a distinctive colour whether dry or wet or in solution: Provided that this Rule shall not apply in the case of:—(a) poisons which are themselves of a distinctive colour, (b) sheep dips which are already of a distinctive colour, or (c) articles to be exported to purchasers outside the United Kingdom.

SIXTEENTH SCHEDULE

Arsenates.	Organic compounds of arsenic
Arsenites	Oxides of arsenic
Copper acetoarsenites	Sodium thioarsenates
Halides of arsenic	Sulphides of arsenic

The Orders giving effect to the changes are S.I., 1948, No. 839 and S.I., 1948, No. 840 (one penny each from H.M. Stationery Office).

COMING EVENTS

Monday, May 10

MANCHESTER AND SALFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Council Chamber, Houldsworth Hall, Deansgate, at 7.45 p.m. Annual meeting.

Tuesday, May 11

NORTH LONDON PHARMACEUTICAL ASSOCIATION AND PHOTOGRAPHIC DEALERS' ASSOCIATION (NORTH METROPOLITAN AREA), North Library, Manor Gardens, Holloway, London, N.7, at 7.30 p.m. Show of colour films and demonstration of film-strip projection by Mr. F. G. Newmarch, F.R.P.S.

Wednesday, May 12

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Stratford Church Institute, 27 Romford Road, London, E.15, at 8 p.m. Consideration of motions before Branch Representatives' meeting, May 20.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Literary Institute, Aylesbury, at 8 p.m. Dr. J. B. Wrathall Rowe, M.B., Ch.B., on "The National Health Service."

LONDON CHEMISTS' GOLFING SOCIETY. Fixture at Finchley Golf Club (Telephone: Finchley 2436).

Thursday, May 13

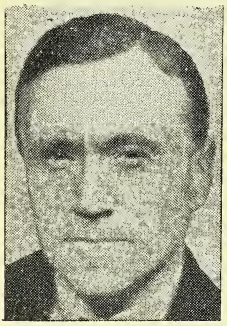
CHADWICK PUBLIC LECTURE, University College, University Park, Nottingham, at 4 p.m. Sir Arthur MacNalty on "Advances in Preventive Medicine during the War of 1939-45."

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, is holding its fourth open summer golf meeting at the Aberdare Golf Club on June 3. Particulars from Mr. T. James, 8 Bryn Terrace, Cwmdare, Aberdare.

COUNCIL CANDIDATES

(*Concluded from* THE CHEMIST AND DRUGGIST, *May* 1, *p.* 567)

HOWELLS, William Spencer



QUALIFIED 1910. A proprietor pharmacist. Treasurer and a past-president of the Society and chairman of its Finance and Joint School Committees. Member of Statutory Committee, Joint Committee on a National Pharmaceutical Service, Pharmaceutical Society's Veterinary Committee, and of the Council, Proprietary Articles Trade Association. Member of committee and a past-chairman of Thames Valley Branch, Pharmaceutical Society. Chairman, Surrey Pharmaceutical Committee. POLICY: I shall confine my statement of policy to what is perhaps the most important aspect of the Society's work—the welfare of the pharmacist in the broadest sense. The pharmacist should have the authority and freedom to do his job efficiently, to derive professional satisfaction from his labours, to enjoy the respect of the community, and to receive the financial reward his work deserves. The first requirement is a sound education system for pharmacy. Supplementary to this are those services such as the Society's libraries, publications, lectures and post-graduate courses, and technical advice which are necessary to keep the pharmacist abreast of developments.

INMAN, Charles William

UNITY created among pharmacists by Jacob Bell in 1841 established the Pharmaceutical Society. This establishment and subsequent efforts of the Society in its work of governing, educating, protecting and helping pharmacists is responsible for the strong and reputable position which pharmacists occupy to-day and for the favourable prospects for future pharmacists. Pharmacists have become grouped into several sections according to the particular way in which they practise pharmacy, but they are equal members of the Society. I am convinced that unity among pharmacists is essential and that, to promote unity, the approximately 40 per cent. of pharmacists who are retail employees must be more adequately represented in the Council. I have been a retail employee pharmacist for twenty-four years, and, on these convictions, offer myself not to promote any sectional interest but to promote unity.

McNEAL, James Fallows

ELECTED to Council, 1936. A past vice-president and past-chairman of several committees, including the War Auxiliary Benevolent Fund, Public Services, War Aid and Benevolent Fund. Vice-chairman, Joint Committee on a National Pharmaceutical Service. POLICY: I have kept before me two main principles: the sale of drugs and medicines by or under the control of pharmacists, and the prestige and position of pharmacists in the public services, particularly in the armed forces. The protection of the business of a chemist and druggist is a charter object, and requires increasing vigilance on the part of the Society. The position of a pharmacist in the armed forces has not been adequately recognised. The formation of an Army Dental Corps should be followed by a Pharmaceutical Corps. The pharmacy proprietor has the most to lose in future negotiations and I hope my knowledge and experience will be utilised in securing adequate remuneration. The employee will also stand to lose should remuneration not be satisfactory.

MELDRUM, Adam Alexander

MEMBER of Pharmaceutical Society's Council, Pharmaceutical Standing Committee (Scotland) and Aberdeen Pharmaceutical Committee. A past-chairman of the Aberdeen and North-eastern Scottish Branch of the Society and local pharma-

ceutical association. Member of Working Party on pharmaceutical practice and remuneration. POLICY: With five years' service on the Council behind me I feel I can be of some further use in the forthcoming struggle to obtain adequate recognition of the pharmacist within the National Health Service. I firmly support the educational policy of the Council, being convinced that we either go ahead or drop out as regards professional status. I consider that the present constitution of the Society requires careful study. There must be no surrendering of our heritage or any of our beneficial rights. The position of the Branches and their importance within the Society must be clearly determined. An extension of their powers would, in my opinion, give a more united and contented membership.

ROSS-MANSELL, John

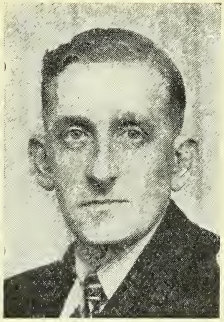
FELLOW of Chemical Society; Fellow, Royal Society of Arts; general manager of a firm of manufacturing chemists, secretary and director of examinations, Institute of Chemists-Opticians, member of the professional negotiating committee (National Health Service Act), editor "Journal of the Institute of Chemists-Opticians." POLICY: The Pharmaceutical Society must make up its mind whether it is a controlling or protective body. If the latter, the charter must be amended to give employee pharmacists adequate voice in the affairs of the Society. If the former, the controlling function of the Society should be so directed as to preserve the qualification and to ensure pharmacy for the pharmacist. The educational policy of the Society should not only be a progressive one but also realistic. The past policy of administration has been one of vacillation and procrastination, and if pharmacy is to achieve the status it merits, a vigorous and dynamic administration must be created, and one which is in the hands of the Council and not left to the permanent officials. My policy aims, therefore, to ensure adequate and equal opportunities of participation in the affairs of the Society by the employee pharmacist, and the inauguration of a virile and dynamic attitude in the protection of the professional interests of pharmacists.

SHAW, Henry Clement

FIFTY-SIX years of age. Past-chairman North Staffordshire Branch, Pharmaceutical Society. Past-treasurer of Society and now its vice-president. Apprenticed with Thompson & Capper, Huddersfield; qualified 1913. After experience in Wolverhampton and Sheffield, served in 1914-18 war. In retail business in North Staffordshire. A member, Stoke-on-Trent Pharmaceutical Committee and local Executive Committee under the National Health Service. No interest inimical to pharmacy. POLICY: Throughout the nine years I have served on the Council my policy has been consistent—that the next generation shall have a better pharmaceutical standing and prospects than this generation. To this end, I aim to apply common sense, foresight and courage to problems and not to be frightened at spending money where wisdom demands it. Under the National Health Service we shall receive in practical form the benefits of compulsory membership of the 1933 Act. If we are to retain and increase the privileges we enjoy we must see that a high standard of education and of internal discipline is maintained. The educational standard should be as high as possible, consistent with the maintenance of present membership.

WILSON, Frank Clay

QUALIFIED 1927. Secretary of the Bradford Branch of the Pharmaceutical Society, 1928-33, vice-chairman, 1933-35, and chairman, 1935-36. Elected to Council 1939. Served on many committees; at present chairman of Public Services Committee. Formerly a member West Riding



Pharmaceutical Committee and West Riding and Bradford District Pharmaceutical War Committees. Now a member of committee, Wimbledon Branch of the Society. Since 1946 secretary County of Surrey Pharmaceutical Committee, member of Surrey Executive Council (under the National Health Service). POLICY: I support the present educational policy of the Council. The Society must strive to obtain further recognition of the pharmacist in H.M. Forces. The sale of the Brunswick Square property is a logical step greatly strengthening the Society's financial position. Subject to adequate remuneration I consider that the pharmacist should take his place within the National Health Service. It is the duty of the pharmacist to make the service 100 per cent. efficient, and the success of his efforts will determine the future of pharmacy as a profession.

FIRST REPORT ON STREPTOMYCIN TRIALS

TRIALS with streptomycin by a committee appointed by the Medical Research Council under a Ministry of Health scheme ("Lancet," April 17, p. 595) in 105 cases of tuberculous meningitis show that the drug prolonged the life of most patients, effected considerable improvement in many others, and may cure a few of them. At the end of a four-month period thirty (28 per cent.) of the patients treated were making good progress; sixty-seven (64 per cent.) had died. In the next three months three of the thirty relapsed and died. A third of all cases had been in an advanced condition of the disease, however, when admitted to the treatment centres. Only two out of twenty-eight advanced cases responded well.

Combined intrathecal and intramuscular administration produced significantly better results than intramuscular injections alone, 35 per cent. of the patients who received the drug by both routes having made good progress against only 11 per cent. of those receiving it by the intramuscular route alone. Fifty per cent. of patients aged three years and over who were admitted at an early or medium stage of the disease made good progress under combined therapy, but the drug was less effective in children below three years of age.

The committee recommends that treatment with streptomycin should be started without delay when the disease is suspected. Intramuscular dosage should be not more than 0.02 gm. per lb. of body weight daily, preferably in divided doses, and continued uninterruptedly for at least three months. The recommended intrathecal dose is 0.05-0.1 gm. daily in one administration in 5-10 mils of sterile saline.

Meningeal irritation was a disturbing toxic symptom shown in some patients after intrathecal treatment. Excessive dosing caused albinuria, and other toxic effects noted included pyrexia. Streptomycin levels in the cerebro-spinal fluid dropped when patients were recovering, but sometimes rose when the patients' condition deteriorated. The streptomycin used for the trials had been produced by an American manufacturer.

Smith, Vollum and Cairns, in a report to the Medical Research Council ("Lancet," April 24, p. 627) describe a method of injecting streptomycin solution directly into the interpeduncular space of the brain, and give supporting evidence to the M.R.C. Committee's report, claiming seven out of eighteen cases as free from symptoms after treatment.

ISOLATION OF VITAMIN B_{12}

RICKES and other workers ("Science," April 16, pp. 396-98) describe preliminary trials of a red compound isolated from liver and called by them vitamin B_{12}. The compound has had beneficial effect in three cases of Addisonian pernicious anæmia. The substance was isolated by purification of liver concentrates and was found to be clinically active in 3-gm. to 6-gm. doses; it has been standardised in terms of the *Lactobacillus lactis* Dorner factor and has a potency of about 11,000,000 LLD units per mgm. The refractive indices of needle-like crystals of the compound were α, 1.616; β, 1.652; and γ, 1.664. The crystals darkened to black at about 210-220° C., but did not liquefy below 300°. A number of commercial liver extracts prepared for parenteral use were afterwards assayed microbiologically for vitamin B_{12} content. The term vitamin B_{12} is preferred to "the anti-pernicious-anæmia principle."

TAX POINTS INTERPRETED

SINCE publication of last week's issue of the *C. & D.*, Commissioners of Customs and Excise have issued Purchase Tax Notice No. 78 M, which amplifies and to some extent interprets the Finance Bill (No. 2) (see *C. & D.*, May 1, pp. 562-63), so far as it concerns purchase tax on drugs.

Mixtures not named as such in the monographs or formularies must, as previously stated, be labelled with the official name of each ingredient and a reference to the relevant publication, but may be supplemented by such factual descriptions as "Mixture of . . ." or "Tablets of . . .."

Storage Directions Allowed

Of the optional particulars on a label, directions for use and storage may include dosage directions for different complaints, directions as to temperature and conditions of storage, directions as to period of potency, and such directions as "For external use only." Quantitative particulars may refer to the ingredients and/or to the preparation as a whole. The requirement that permitted names and addresses of makers, sellers, etc., are not to be more conspicuous than the compulsory statement of name and reference to a formulary is amplified by the words "whether in size or kind of type, colour or otherwise."

While certain medicinal substances are scarce, liability to tax is not incurred by including on labels and containers a printed warning about the importance of restricting such substances to medicinal uses. Outer containers, provided solely for the purpose of transport in the course of trade, need not comply with the labelling requirements; the official name of the contents need not be specified, and such handling directions as "Fragile" may be shown.

Substances supplied tax-free because they comply with the provisions of Purchase Tax Notice 78 M cease to be exempt if the labelling or "get-up" is changed so that they no longer comply. A person making such a change would be regarded for purchase tax purposes as a manufacturer. If his turnover in chargeable goods of all kinds exceeded £500 a year, he would be required to be registered as a manufacturer.

Exemption from tax applies to goods delivered on sale or "appropriated to retail trade or similar purposes" on or after June 1, and to imported goods entered with the Customs or delivered from bonded warehouse for home consumption on or after that date. Goods delivered before June 1 are taxable, and retailers may dispose of them at prices to cover any tax borne. No rebates of tax can be claimed on such goods.

Drugs and medicines exempted from tax by the Purchase Tax (No. 1) Order, 1948 (see *C. & D.*, April 3, p. 430) continue to be exempt whether or not they comply with the new labelling requirements.

It is to be noted that tablets, even if labelled in a way that would otherwise render them tax-free, are not exempted from tax if they are embossed or engraved with a trade mark.

In the examples of labels given last week, "tablets of aspirin" were given as of the B.P.C. 7th Supplement. The title should preferably be given as "Tablets of Aspirin, B.P., 7th Addendum." All essential factors for securing exemption from tax were indicated in the specimen label.

WOMEN PHARMACISTS

AT the annual meeting of the National Association of Women Pharmacists held in London on April 22, MISS D. M. JONES (president) welcomed Mrs. J. K. Irvine (president of the Pharmaceutical Society), Miss M. Garnett (a member home on leave from China and who had been released from internment by the Japanese in 1945), Mrs. Roberts (a former treasurer of the Association, home from Canada), and Miss McCarron (an Australian pharmacist). The year 1947, said Miss Jones, had seen the election of a woman to the presidency of the Pharmaceutical Society, and of a third woman member (Miss M. A. Burr) to the Society's Council. Women pharmacists should seek positions of authority, she said, in all fields of pharmacy. A liaison committee had been formed to maintain contact with the eight branches of the Association. The committee had been successfully inaugurated in Manchester on March 14, and Mrs. J. M. Wright, Nottingham, had been chosen to attend all committee meetings of the Association held in London.

MRS. J. K. IRVINE then gave an explanation of the Society's new education plans. The control of the Society's College, she said, was to pass to a corporate body, with the Society and London University represented on a College Council. The change would relieve the Society of a great financial burden.

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INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

Piccadilly flapjack
Adrenaline gauze or tulle dressing
Glasson (a manufacturer or brand of vitamin compounds)
Vergex Obozin
Dr. Allen's foot brace

The CHEMIST AND DRUGGIST
for RETAILER—WHOLESALER—MANUFACTURER
ESTABLISHED 1859
Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, British Empire, and foreign countries
Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.
VOL. CXLIX MAY 8, 1948 No. 3559

Tax on Brushes and Combs

UNDER the Eighth Schedule to the Finance Bill (No. 2), Group 31 (chargeable with purchase tax at 33⅓ per cent.) gives as "Toilet requisites except face cloths and towels" the following:—

> Brushes, combs, scissors, razors and razor blades, razor strops, razor sharpeners, dry shavers and dry shaver heads, sponges, toilet paper, dental sticks and toothpicks, not being articles supplied as part of a toilet set.

The list differs in some respects from the corresponding list in Class 17 of Purchase Tax Notice 78, which it supersedes, but both lists include brushes and combs "not being articles supplied as part of a toilet set." Toilet requisites not specified in the paragraph quoted (including brushes and combs supplied as part of a toilet set) are taxable at 100 per cent.

In the trade, what constitutes a toilet set is well understood. It comprises two or more articles matched according to their colour, pattern, composition or texture. It may include simply a brush and comb or it may cover brush, comb, clothes brush, glove stretchers and what you will. In making a distinction between the tax rates on brushes sold separately and brushes forming part of a toilet set, the authorities were presumably recognising that to brush one's hair is a necessity, no matter to what extent a matching set may be a luxury. From that standpoint, there is no reason why a man should be penalised because he brushes his hair holding a brush in each hand whereas a woman holds a brush in one hand and steadies her head with the other. A pair of military hairbrushes was never a "toilet set" until the Customs and Excise authorities ruled it so.

Now they have gone further and given a ruling that any two hairbrushes that happen to have been made from the same materials by the same manufacturer are "matched toilet articles" if ordered at the same time by a retailer. A brushmaker who could hardly believe that this was indeed an official pronouncement queried it with the authorities and received the following reply:—

> "I am directed by the Commissioners to inform you that where matched toilet articles, e.g., mirror, hairbrush, comb, clothes-brush, etc., are sold as part of a transaction involving a purchase of two or more matched toilet articles, tax is chargeable at the rate of 100 per cent. as for toilet sets."

The effect of this decision is that a retailer who places an order for hairbrushes or for combs with a manufacturer or wholesaler must either be prepared to pay tax at 100 per cent. on an order for, say, half a gross of combs (or hairbrushes, as the case may be), or must make out and send seventy-two separate orders and receive the goods in seventy-two separate packages, accompanied or followed by seventy-two separate invoices. Our own inquiries met with the response that genuine orders for hairbrushes for sale separately would be recognised and made chargeable at the lower rate, but no indication was given of the way in which this would be done, and the retailer, who knows that his customers will not buy combs at the sort of prices that will result from including tax at 100 per cent., will not want to take chances. Such decisions make a mockery of trading transactions without necessarily frustrating the wrongdoer. A man may, by buying the items separately at the 33⅓ per cent. tax rate and making them up into "matched toilet sets," have been able to defraud the authorities by selling at prices based on the 100 per cent. rate. It will become more difficult, but not impossible, for him to continue doing so. Once again the

bona fide seller is made to suffer for the misdeeds of the tax-evader. The least the former is entitled to demand is that the method that penalises him shall be a genuine and effective safeguard.

At the present time many manufacturers of brushes and combs are displaying their products at the British Industries Fair. Recently they have been enjoined to reduce profits and prices. If they are not to be prevented from doing legitimate business in the home market—or only to be able to do it at a heavy increase of overheads—the authorities should come out immediately with an announcement that they have adopted more effective and less objectionable methods of giving effect to the intentions of the Chancellor.

Scientific "Plain Words"

An analysis into why young scientific graduates often present research reports in ways that fail to hold the attention of those who should be particularly interested, which was made by Dr. V. R. Evans (reader in the science of metallic corrosion, University of Cambridge) at a conference in Leicester recently ("Nature," April 3, p. 533), is perhaps of special interest to pharmacists as a result of recent suggestions from the officers of the British Pharmaceutical Conference for a limit to the length of papers submitted to the Conference (see *C. & D.*, March 20, p. 357, and March 27, p. 393). A common fault, Dr. Evans said, is that writers do not make clear the reasons for selecting the subject of their investigations, and do not emphasise the significance of the results for those working on other subjects. The "obvious disinclination" of certain "hard-working experimenters" to use the pen in the communication of ideas, he said, revealed an unsatisfactory state of affairs. Some writers seem to experience difficulties in dealing with tense, in order, for example, to show differences in time when describing work of a previous period, plans made in the relatively distant past, and others in the immediate past. Others found difficulty in changing from the direct to the indirect speech when comparing their own results with those of other workers.

Clumsy sentences may result from an author's undue fear of ambiguity. In order to inform and convince, however, a writer should aim at being brief and lucid in style rather than pseudo-legal. The publication "Plain Words," written by Sir Ernest Gowers primarily for civil servants, and published recently by H.M. Stationery Office, may also prove useful to research workers, for they, no less than civil servants, require to be "instructional and objective." Since a written style, however, comes usually through practice, combined with hard work on early drafts, the stress laid by the Leicester conference on continued practice in writing throughout the university course is to be commended.

Value of Streptomycin

Perhaps the most important recommendation made in the first report (see p. 598) of a committee set up by the Medical Research Council to plan and direct clinical trials of streptomycin in the treatment of tuberculosis, is that bacteriological confirmation of tuberculous meningitis (the only condition with which the report deals) must not be considered a prerequisite of treatment. Treatment must be started without delay. Particularly important too is the marked value of combined intramuscular and intrathecal treatment. Of seventy-two cases treated in this way, twenty-seven (37 per cent.) were alive seven months or more after commencement of treatment, while of the forty-eight patients aged over three years, twenty-two (46 per cent.) were alive. The figures support the findings of other bodies, including the American Council of Pharmacy, which reported a similar proportion of survivors from among ninety-one cases (some of whom, however, had been observed for less than four months). It is a pity that British-produced and standardised streptomycin could not have been used for the M.R.C. trials. In view of a continuing shortage of the drug, as a result of which, the "Lancet" states, the investigators have been handicapped, British producers may be stimulated to increase their ouput. Further reports are expected on the value of streptomycin in tuberculous conditions.

GUILD OF PUBLIC PHARMACISTS

THE Council of the Guild of Public Pharmacists, at a meeting in London on April 17, approved the draft constitutions of the Pharmaceutical Functional [Whitley] Council, of its staff side, and of a Joint Consultative Committee (Public Pharmacists) that is being set up by the Guild, the Association of Scientific Workers and the Confederation of Health Service Employees to facilitate work on the Whitley Council. The Council decided to continue its membership of the Public Services Committee (of the Guild and the Pharmaceutical Society) which it considered had still a useful function to perform in dealing with aspects of the National Health Service other than salary matters. A meeting of representatives of the Guild, the Pharmaceutical Society and the Ministry of Health was suggested to discuss a memorandum on regional pharmaceutical organisation that the Guild had submitted to the Minister. The nomination of Mr. R. H. Henriksen as Guild representative on the Central Health Services Council was reported confirmed by the Joint Committee on a National Pharmaceutical Service; Mr. T. D. Whittet was elected a representative on the Pharmaceutical Standing Advisory Committee.

The formation of a Welsh Regional Hospital Pharmacy Committee was welcomed, and the Council urged that similar bodies should be formed in the other hospital regions. Draft alterations to the rules, to deal with the admission of associate members, reorganised Guild districts, and branch delegates' meetings, were approved for submission to the annual meeting. Negotiations with a local authority on the back-dating of salary increases were reported successfully concluded after arbitration. The Council urges hospital pharmacists to make sure that their names are included in voting lists for the election of local Pharmaceutical Committees (see *C. & D.*, May 1, p. 553).

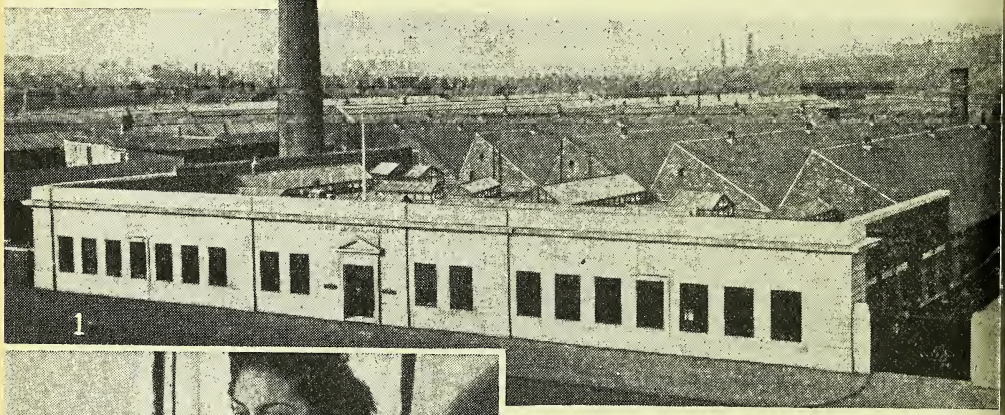
LIVERPOOL CHEMISTS' ASSOCIATION

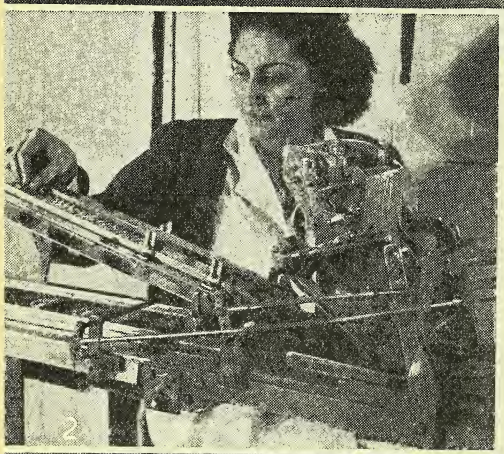
AT the annual dinner of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society recently, Mr. E. A. Briggs presiding, MR. W. J. TRISTRAM, J.P., said that the National Health Service Act seemed excellent on paper. Co-ordination of the health services would mean close co-operation between persons engaged in them, and pharmacists offered such co-operation. MR. E. A. BRIGGS said the hard work done by the Society in connection with the new service had enhanced pharmacists' prestige. Centralised buying might be suitable for hospitals and institutions, but he doubted whether retail pharmacists, as contractors, would be attracted to the idea. He described as unwise a suggestion that doctors should write their prescriptions in English. MRS. J. K. IRVINE (president of the Society) said the Council shared the disappointment of members that the Brunswick Square building was being sold. The Society would, however, have a great deal to do with the College, and there was no fear that the conduct of pharmaceutical examinations and diplomas would pass to London University. MR. J. L. HIRST (vice-president, Liverpool Insurance Committee) said that thirty-five years ago a joint services subcommittee had been set up locally to adjust any local differences between the medical profession and pharmacists; the subcommittee had only once been called upon to function, and then only as the result of a misunderstanding. PROFESSOR HENRY COHEN, M.D., said he had no doubt the differences between the medical profession and the Minister of Health would be resolved in time; the new health service must begin in an atmosphere of goodwill.

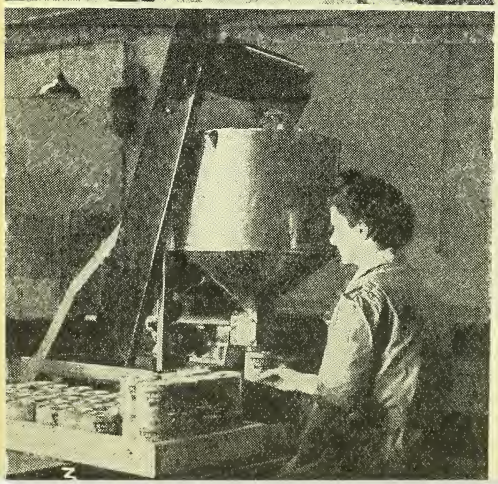
At the annual meeting of the two bodies on April 29, Mr. H. Humphreys Jones, J.P., was elected *President* of the Association, in succession to Mr. E. A. Briggs. Other officers elected were: *Vice-president,* Mr. W. E. Shepherd; *Treasurer,* Mr. W. E. Humphreys; *Secretary,* Mr. J. P. Murphy. During a discussion on resolutions for the Branch Representatives' meeting on May 20, the Branch's representatives were urged to champion a Liverpool resolution that the examining powers of the Pharmaceutical Society should in no circumstances be delegated to outside bodies. The annual report of the secretary (Mr. Murphy) described 1948 as the golden year for pharmacy. Pharmacists would have the opportunity to give so good a service that the building of health centre dispensaries would be an unnecessary extravagance. The Pilot Census of Distribution, said the report, seemed to be aimed at the ultimate closing down of many establishments. Collections for the Society's Benevolent Fund during the year amounted to £146.

"CHEMISTS ONLY"—AND FULL STEAM AHEAD!

Manufacturing developments behind a decision by Hirst, Brooke and Hirst, Ltd., Leeds, to supply pharmacists only







A POLICY decision put into operation on April 1 by the 126-year-old business of Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Leeds, involved the closing of important accounts and a parting from old friends. Proprietor pharmacists in an area from Leicester to Leith who take their supplies from this centrally-placed distributor will applaud the company's intention to become "chemists only" suppliers. But will the company's directors be confirmed in the wisdom of their decision by increased support from qualified retailers? Or will the shareholders call them to account for a fall in turnover? These are questions to which only time can supply the answer, but the managing director (Mr. Geoffrey A. N. Hirst), his colleagues on the board, and the staff, are full of confidence that they have made the right decision. "I don't wish to exaggerate the sacrifice," said Mr. Hirst in an interview. "We had a proportion—not large—of non-chemists' accounts, but we have been on the C.F. wholesalers' list for many years. The new decision extends the policy to our manufacturing activities and makes the service of qualified chemists our sole concern."

Older than British Pharmacy

To realise the full significance of the decision for such an old-established concern, it is necessary to appreciate its history. When the business was established there were still twenty-seven years to run

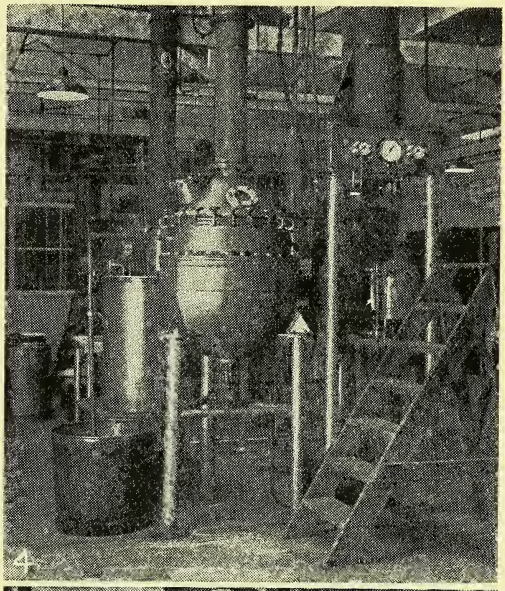
1. Exterior view of works and offices.
2. Labelling of ampoules by direct printing.
3. Ointment and cream filling by automatic, thermostatically controlled machine.

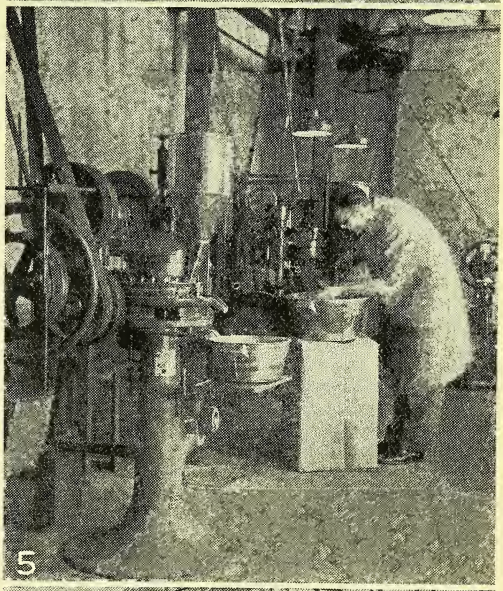
efore pharmacists became a statutorily ecognised profession. In a sense it is rue to say that the company's early cusomers, therefore, were originally all unualified retailers. After the founding of he Pharmaceutical Society, chemists and ruggists became an increasing and eventully overwhelming proportion of the comany's customers, and the company took n increasing interest in them. When the roprietary Articles Trade Association was ounded it was one of the founder memers, and for thirty-four years has been epresented on the Association's executive ommittee. Mr. H. G. T. Read, a direcor, has an unbroken record as representave for twenty-two out of the thirty-four ears. Nevertheless, so far as the supply f products manufactured by the company as concerned, there remained always a ucleus of unqualified customers. That nk has only now been finally severed.

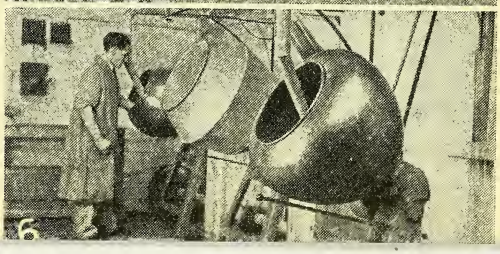
Side by side with the acceptance of the ew sales policy has come into operation series of developments on the manufacuring side. Without them the decision ight, perhaps, not have counted for uch. By their aid the company can nplement every promise implied in the olicy of "chemists only throughout the hole range of pharmaceutical manufacures."

ew Plant and Improved Layout

Over a period of several years an active nd progressive research department has een built up. At the same time the layut and equipment of the manufacturing epartments have been thoroughly overauled. The galenical and manufacturing boratories have, each in turn, been virually stripped to the walls, and obsolesent plant replaced with new and modern ounterparts which have been laid down in arranged positions to give speediest prouction of highest ouput. The output nge is from standard galenicals to medial specialities. Noticeable to the most sual visitor is the amount of stainless eel plant in use in the laboratories. holly in this metal, for example, is the rge-scale vacuum evaporation plant sed for liquid and solid extracts, liver xtract, etc. The large-scale mixing plant r the manufacture of kaolin poultice, alt and oil, and granular saline, also of stainless steel. Other notable ems of plant include a 100-gall. centrigal hydro-extractor for the drying of ystalline products and for menstruum reovery; a vacuum drying-oven used in the anufacture of glandular products; and







4. Stainless-steel vacuum-evaporation plant. Tablet stamping on rotary multi-punch machines. 6. Tablet coating.

machinery designed by the company's own production department for the large-scale production of granular effervescent preparations.

But the story of manufacturing developments does not end in the galenical rooms. It has had important recent sequels that put the company in production in some of the most newly explored fields of modern therapeutic research. The penicillin department is an example. When the Ministry of Supply relinquished its monopoly control of penicillin in Britain in 1946, the company was quick off the mark with a range of penicillin preparations. The research department gave these its priority attention, the effect of which is now to be seen successfully embodied in the bacteriologically-tested Notapen series of penicillin preparations. Manufactured under controlled conditions, these are stored before dispatch in a new 800 cu. ft. cold room.

Ampoules in Series Production

A few years ago a considerable export demand developed for packed ampoules. The department, when set up, grew rapidly, and is now an important part of the company's production. Air-conditioned, the department is equipped for a very large output, with semi- and fully-automatic machines, the latest of which is an ampoule washer of 240-a-minute capacity. Sterilisation is by autoclave or other method appropriate to the contents, and labelling—again fully automatic—is by direct printing on the glass. Hitherto the total output of the department has been absorbed overseas, but production is being greatly stepped up, and it is expected that items from the Verrasept range of injection solutions will be making their appearance in the home market shortly.

The tablet department is a compact, highly efficient installation of rotary multi-, double- and single-punch stampers with capacity for mass output of a complete size-range. In a subdepartment all types of tablet coatings are applied, many of them to the individual requirements of special customers.

The manufacturing laboratories replanned to schedule, the next department to come in for overhaul was the one devoted to the filling, labelling and finishing of packed goods. Four principal sections make up the "girls' room" (as it figures in the firm's jargon): Packing of tablets (by automatic counting machines); ointments, creams, kaolin poultice and similar products, including the company's own branded extract of malt with cod-liver oil; powders and granular products (all vacuum-packed); and liquid preparations in great variety, effectively dealt with by vacuum-filling devices. Delivery of one or two more items of plant (long on order) will result in a switchover to full series turnout by conveyor-belt methods — a satisfactory enough answer to any chemists who may have feared that the National Health Service would overwhelm the manufacturers with demands for supplies greater than they could cope with.

With one or two exceptions (for example, Smedley's paste, Lascelles pills), Messrs. Hirst are not manufacturers of proprietary preparations, though they do put out a range of packed pharmaceuticals under the name Alembic and a range of toilet preparations under the name Leedonis. A proprietary vegetable laxative preparation, Oralax, is in its final production stages prior to the launching of a localised advertising campaign of which chemists in the area affected will receive due notice. A very efficient sundries department carries the largest range of chemists' sundries of any supplier in the operating area of the company.

Otherwise this brief conducted tour of the manufacturing departments is ended, except for a quick glance at the drug-grinding room, which remains in active commission despite trends towards synthetic organic compounds in medicine; and at the printing department—a by no means negligible factor in promoting output, since it provides the whole of the show material, labels, catalogues and sales literature needed in marketing and distributing the products made.

Assembly and Dispatch

Nothing remains, then, but to put the goods into the pharmacists' hands, and that is done through the efficient dispatch departments, which also handle the innumerable proprietary articles that in these modern days have to be kept in stock to meet the chemist's weekly or bi-weekly order. Then—out to the loading docks and away by one of the company' motor vehicles to Lincolnshire or Cumberland, Tees-side or the Yorkshire coast; or by rail to Glasgow or the heart of Midlothian—perhaps, even, by air or sea to some agent in the Levant. For the company's export department is today making a very real contribution to the country's export drive.

B.P. CHANGES AT A GLANCE

(*Continued from* THE CHEMIST AND DRUGGIST, *May* 1, *p.* 565)

New monographs in **Black Type.** Retained monographs in CAPITALS. Omissions in [*Italics*] between square brackets. M.W.=Molecular weight. Min.=Minims. gr.=grain. gm.=gram. M.P.=Melting point.

ÆTHYLENUM. — Formula now CH_2 CH_2. M.W. 28.05. Purity, 98.0 per cent. v/v.

ÆTHYLIS CHLORIDUM. — M.W. 64.52. Purity, 99.5 per cent. (unchanged). Weight per mil at 0°, about 0.919 gm. Blank titration added to assay.

Æthylis Oleas.—M.W. 310.5. Contains not less than 98.0 per cent. w/w of $C_{20}H_{38}O_2$. Pale yellow oil; odour and taste, strong and disagreeable. Insoluble in water; miscible with vegetable oils. Acid value, not greater than 0.5. Iodine value, 77 to 80. Weight per mil at 20°, 0.869 to 0.870. Peroxide test and assay also included.

AGAR.—Details of sources extended to "obtained from *Gelidium Amansii* Lamouroux, *G. cartilagineum* (Linn.) Gaill., *G. pristoides* (Turn.) (Kutz), *Gracilaria confervoides* (Linn.) Greville, *Pterocladia lucida* (Turn.) J.Ag., *P. capillacea* (Gmel.) Born and Thur, and other closely allied Rhodophyceæ." Description includes sheets or greyish-white flakes as well as previous strips, bands and powder. Identification tests (A to G) modified and extended. Distinction from gelatin (C) requires *hot* solution of tannin acid. Distinction from tragacanth (D) is in two parts with red precipitate from potassio-cupric tartrate solution and slight white precipitate from barium chloride solution. Distinction from acacia and tragacanth (E) is microscopically in ruthenium red solution and (F) by N/50 iodine solution added to powder (mixing acquiring a deep red colour). Acid-insoluble ash, not more than 1 per cent. Ash limit, 5 per cent. (same). Loss on drying at 100°, not more than 18.0 per cent.

AGAR PULVIS. — Now a submonograph. Requirements as under "Agar."

ALCOHOL.—Rearranged monograph virtually identical with 1932 monograph in detail except as follows: Identification test (iodoform formation) added. Methyl alcohol test is made more specific, examination being after "thirty minutes" standing "between 15° and 30°." Alcohol (90 per cent.) is made by diluting 947 mils (instead of 948 mils) of alcohol (95 per cent.) to 1,000 mils with distilled water. Data for specific gravity (at 15.5°/15.5°) is retained to conform with statutory definitions. The note on contraction requires the mixture of alcohol and water to be cooled to 15.5° before diluting to the final volume.

Alcohol Benzylicum.—$C_6H_5CH_2OH$. M.W. 108.1. Contains not less than 97.0 per cent. w/w of C_7H_8O. Colourless, almost odourless liquid; taste, sharp and burning. Soluble in 25 parts of water; miscible in all proportions with alcohol (95 per cent.), chloroform and solvent ether. Identification by oxidation to benzaldehyde. Acid value not greater than 0.5. Boiling point not below 200°, 95 per cent. distilling between 200° and 210°. Refractive index at 20°, 1.538 to 1.543. Weight per mil at 20°, 1.040 to 1.050. Test for chlorinated compounds as under "Acidum Benzoicum." Assay includes acetylation with acetic anhydride in pyridine and titration with N/1 sodium hydroxide to phenolphthalein indicator against blank (each mil difference 0.1081 gm. C_7H_8O).

Alcohol Cetostearylicum. — A mixture of solid aliphatic alcohols, consisting chiefly of cetyl and stearyl alcohols. A white or cream-coloured unctuous mass, or almost white flakes or granules. When heated melts to a clear, colourless or pale yellow liquid free from cloudiness or suspended matter. Odour, faint and characteristic. Taste, bland. Insoluble in water; soluble in solvent ether; less soluble in alcohol (90 per cent.) and light petroleum. Acetyl value, 170 to 185. Acid value not greater than 0.1. Iodine value not greater than 2.0. M.P. not below 43°. Saponification value not greater than 0.5. Not more than traces of water on distilling in a boiling-point apparatus, and initial boiling-point not lower than 300°. Preparation: Cera Emulsificans.

[*Alcohol Dehydratum.* — Relegated to Appendix I, p. 629].

Alcohol Tribromethylicum.—Monograph rearranged from Addendum III. Test for readily carbonisable substances omitted. Doses omitted. Preparation: Bromethol (added).

Alcoholia Lanæ.—Monograph as Addendum VI, rearranged. Completely soluble in 25 parts of boiling dehydrated alcohol (added). Unguentum Aquosum listed as a preparation.

ALOE.—Description relates to Cape and Curaçao (or Barbados) aloes only (Socotrine and Zanzibar aloes being omitted in description and tests). A (new) standard of not less than 75 per cent. is required for water-soluble extractive. Preparation: Aloes is an ingredient of Tinctura Benzoina Composita.

Aloes Pulvis.—Submonograph. Yellowish-brown or dark reddish-brown. When mounted in lactophenol and examined under a microscope, is seen to consist of yellowish to reddish-brown angular fragments, which are either amorphous or structureless (Cape aloes) or composed of masses of small acicular crystals (Curaçao aloes); the powder ultimately dissolves in the mountant. Preparations: Pilula Aloes. Powdered Aloes is an ingredient of Extractum Colocynthidis Compositum; Pilula Colocynthidis et Hyoscyami; Pilula Rhei Composita. (N.B., Pil. aloes et asafœt. and pil. aloes et ferri are omitted from the 1948 B.P.).

ALOINUM.—Monograph as in 1932 B.P., rearranged. The use of dried and tared filter paper restored in test for water-insoluble residue (i.e., Gooch-crucible modification of Addendum I dropped).

ALUMEN.—Synonyms (Alumen Purification and Purified Alum) omitted. Test for limit of ammonium salts in potash alum added from Appendix I. Preparation and doses omitted (Glycerinum Aluminis being dropped).

Amethocainæ Hydrochloridum. — Monograph of Addendum VII rearranged. Graphic formula given. M.W. 300.8 (instead of 300.67). Paragraph on "Sterilisation of a Solution" omitted. Preparation: Injectio Amethocainæ Hydrochloridi (made immediately before use from sterile substance in a sealed container).

AMIDOPYRINA. — Graphic formula and synonym (Aminopyrine) added to rearranged monograph. Test for "readily carbonisable substances" omitted.

Aminacrinæ Hydrochloridum. — Aminacrine hydrochloride is 5-aminoacridine hydrochloride monohydrate. Graphic and straight-chain formulæ given. Contains 95.0 per cent. of $C_{13}H_{10}N_2,HCl$ calculated on substance dried *in vacuo* at 120°. A pale yellow, crystalline, odourless powder. Taste, bitter. Soluble in 300 parts of water at 20°; soluble in 90 per cent. alcohol and in glycerin; almost insoluble in solvent ether and in chloroform. Soluble in about 2,000 parts of saline solution at 15.5°. A saturated solution in water is pale yellow with a greenish-blue fluorescence. A very dilute solution exhibits a powerful blue fluorescence. M.P. of aminoacridine (recrystallised from dilute alcohol and dried at 100°), 234° to 235°. Yields reactions for chlorides. A 0.2 per cent. solution in water has *p*H 5.0 to 6.5. Loss on drying at 120° *in vacuo* not more than 8 per cent. Sulphated ash, not more than 1 per cent. Assay as "Proflavinæ Hemisulphas" using 0.5 gm. Each mil of M/10 potassium ferricyanide is equivalent to 0.06921 gm. of $C_{13}H_{10}N_2$, HCl.

AMMONII BICARBONAS.—M.W. 79.06 (instead of 79.05). Purity: Not less than 98.0 per cent. (higher limit of 102 per cent. omitted). "Or a glassy colourless solid" added in description. The "correction" made in Addendum I (p. xxi) to add "5 millilitres of dilute nitric acid FeT" in limit test for iron is deleted as thioglycollic acid replaces ammonium thiocyanate in this test. The assay factor is altered to 0.07906 (from 0.07905). Preparations: Ammonium Bicarbonate is an ingredient of Liquor Ammonii Acetatis Fortis and Spiritus Ammoniæ Aromaticus. A note is added that "When Ammonii Carbonas or Ammonium Carbonate is prescribed, Ammonii Bicarbonas shall be dispensed."

[*Ammonii Carbonas.* — Replaced in prescriptions and B.P. preparations by Ammonii Bicarbonas. See note thereunder].

AMMONII CHLORIDUM.—Solubility in water now related to 15.5°.

Amphetamina. — Monograph rearranged from Addendum VII. M.W. 135.2 (instead of 135.1). Contains not less than 97.0 per cent. of $C_9H_{13}N$. Assay factor, 0.01352 (0.01351).

Amphetaminæ Sulphas. — Rearranged from Addendum VII. M.W. 368.5 (instead of 368.3). Ash, not more than 0.2 per cent. (0.1). Assay factor, 0.018425 (0.018415). Minimum dose reduced to 1/24 gr. (from 1/12 gr.).

Amyleni Hydras.—Monograph from Ad-

dendum VII, rearranged and modified. Formula given graphically (in place of straight-chain). M.W. 88.15 (instead of 88.09). Acetone test embodied in paragraph A of Identification, viz.: "To 1 mil of the distillate, dissolved in 200 mils of water, add 1 mil of solution of sodium nitroprusside and 2 mils of N/1 sodium hydroxide, and then a slight excess of acetic acid; a deep red colour is produced which changes to violet on dilution with water. Weight per mil at 20°, 0.868 to 0.878 (replaces specific gravity (15.5°/15.5°) 0.814 to 0.817). Preparation: Amylene hydrate is an ingredient of bromethol (added).

Aqua pro Injectione. — New name for "Aqua Sterilisata." Monograph of Addendum I with drastic modifications, viz.: Distil potable water "from a neutral glass or metal still fitted with an efficient device to prevent entrainment" (in place of "from a glass still, or a still in which the distillate does not come in contact with copper, which has been cleansed immediately before distillation"). The word "sterilised" is omitted in reference to the neutral glass container to be used to collect the distillate. Plugging with cotton-wool must be capped "with some impervious material." "When Water for Injection, free from carbon dioxide, is required, boil the distillate for ten minutes, with as little exposure to air as possible." Cool and place in the final containers which are closed immediately "by fusion of the glass or some other manner so as to produce a gas-tight seal." Sterilisation is by heating, "immediately" after closure, in an autoclave. [Resterilisation of opened container and emergency method of sterilisation (boiling thirty minutes) deleted]. Tests for sterility are in addition to those described under "Aqua Destillata." Pyrogens: Injection of 10 mils per kilo of rabbit not to give rise of more than 0.6° in rectal temperature (averaged on three normal healthy rabbits).

[*Aqua Sterilisata.*—Replaced by "Aqua pro Injectione"]

Argenti Nitras.—Monograph rearranged. Solubility in 90 per cent. alcohol changed to 1 in 14 at 15.5° and 1 in 12.5 at 20° (instead of 1 in 25). Doses omitted.

Argenti Nitras Induratus.—The monograph has been rearranged.

NORTH BRITISH EXECUTIVE

At a meeting of the North British Executive of the Pharmaceutical Society held in Edinburgh on April 14, Mr. G. C. Drummond in the chair, it was reported that Messrs. Hubert A. Perkin, B.Pharm., Ph.C., Dundee, and Frederick J. Elliott, M.Sc., Ph.D., F.R.I.C., had been added to the board of examiners. After a letter from Mr. T. Neilson, Perth (who had suggested the formation of a Perthshire Branch of the Society) had again been discussed, it was decided that the possibility of forming new branches and splitting up some existing large branches should be included on the agenda for the North British Branch Representatives' meeting on June 16. It was also agreed that branches should be invited to suggest, not later than May 7, other topics for discussion at the meeting.

Dr. D. McCall notified the Executive of the Council's decisions on the date of operating the new education and examination regulations. Dr. J. Tait said that the entry in the Intermediate examination just completed had been much larger than in 1947. Eight candidates had entered for the Diploma in Biochemical Analysis examination. The Chairman referred to the deaths of Messrs. J. M. Douglas (for many years divisional secretary in Peebles) and J. S. Whyte (for forty years divisional secretary for the Arbroath district of Angus) and of Miss A. D. MacDonald (a former member of the staff). A list of divisional secretaries for appointment by the Council for 1949, which was approved, included the following changes: *Counties of Aberdeen and Banff* (*Fraserburgh*), Mr. Alexander Carlaw, 40 Cross Street, Fraserburgh (in place of Mr. Douglas G. Farquhar, resigned); *County of Angus* (*Arbroath*), Mr. James A. Whyte, 52 Guthrie Port, Arbroath (in place of the late Mr. J. S. Whyte); *County of the City of Glasgow* (*Maryhill*), Mr. James W. Downie, 801 Maryhill Road, Glasgow (in place of Mr. James Lennox, resigned); *Counties of Peebles and Selkirk* (*Peebles*), Mr. F. J. D. McDougall, 52 High Street, Peebles (in place of the late Mr. J. M. Douglas). On a motion of Mr. A. A. Meldrum, seconded by Mr. W. S. Culbert, it was agreed that the next Executive election should take place on June 16, the chairman and vice-chairman to act as scrutineers. It was stated that the Executive's report on the revision of the Society's constitution was being dealt with by a special committee of the Society's Council.

NATIONAL PHARMACEUTICAL UNION

THE monthly meetings of the Executive of the National Pharmaceutical Union and the directors of the Chemists' Defence Association, Ltd., were held in London on April 27 and 28, Mr. G. H. M. Graham in the chair.

Officers for 1948-9

With the unanimous support of all members present, Messrs. G. H. M. Graham and J. Hearle were re-elected *Chairman* and *Vice-chairman* respectively for 1948-9, thus creating the first occasion on which the offices have been held in consecutive years by the same members. Returning thanks for their reappointment, Messrs. Graham and Hearle expressed appreciation of the support they had received during the year and of the confidence that had been reposed in them "at such an important time in pharmaceutical affairs." Mr. A. R. Melhuish, who has been *Treasurer* of the Union since 1935, was unanimously re-elected.

It was agreed to hold an election in the Southern Area Division 3 (Cornwall, Devon, Dorset and Somerset) to fill a vacancy on the Executive Committee caused by the death of Mr. F. E. Battershill.

Secretary's Report

THE SECRETARY reported on discussions with officials of the Central Price Regulation Committee on provisions of the Miscellaneous Goods (Maximum Prices) Order, 1948, and with the Customs and Excise authorities on the operation of the widened exemption from purchase tax affecting official non-proprietary drugs, in force from June 1, 1948.

Drug Tariff Oncost and Prices

Negotiations with the Ministry of Health, consequent on the operation of the Purchase Tax Exemptions (No. 1) Order, 1948, from April 1 had resulted in agreement that the Drug Tariff oncost should be increased from 28.5 per cent. to 29.5 per cent. from May 1. and that the revision of Drug Tariff prices resulting from the exemption of certain drugs from tax at April 1 should take effect at May 1. Note was taken of the widened purchase tax exemption to operate from June 1, and it was decided to open discussions at once with the Ministry on the date of operation of consequential Drug Tariff price adjustments.

Pharmaceutical Committees

A report on the impending elections of local Pharmaceutical Committees was received. Arrangements were in hand through the secretaries of existing local Pharmaceutical Committees for compiling voters' lists for the contractors' representative section; the co-operation of the secretaries had also been sought in securing information on which to compile voters' lists for the pharmacists employed by contractors and in hospitals. It was agreed that, pending the election of the new Committees, local Pharmaceutical Committees should not appoint representatives to service subcommittees to be set up by the Executive Councils. A draft scheme for chemists' hours of service under the National Health Service Act, submitted by the Ministry of Health, provided for general hours of service that would impose on contractors no obligations differing widely from current requirements. Provision was made in the scheme for out-of-hours service through rota arrangements arranged locally through an Hours-of-service Committee. It was agreed to make renewed representations to the Ministry on the necessity for reconciling the contractors' obligations under the Shops Acts with any requirements for rota service involving the services of employees.

Forthcoming Conferences

Arrangements were confirmed for holding a conference of delegates from N.P.U. branches, and a full representative conference of Pharmaceutical Committees, in London on June 3. The Conferences would have before them all available information on proposed remuneration for pharmaceutical services under the N.H.S. Act. (So soon as a reply is received from the Ministry of Health regarding the basis for pharmaceutical remuneration, full information is being sent to Pharmaceutical Committees, N.P.U. branches, and contractors, so that local meetings may be held and delegates appointed and instructed.) The Ministry of Health has been pressed for a reply and any counter-proposals at the earliest possible date. A report was given on the first meeting of the staff side of the Pharmaceutical Whitley Council held on April 5. A draft constitution to be considered jointly with the management side of the Council was approved by the Executive.

(*To be concluded*)

CORRESPONDENCE

After July 5

SIR,—A good deal of ink has been spilt n speculating on the possible results to pharmacists of the National Health Service. In all probability, however, we shall have little more dispensing to do than now and we are not likely to get a penny extra for our services than we do under the present N.H.I. contracts. It will probably be more profitable for pharmacists to remain outside the scheme and to cater for that large section of the general public which has no desire for state control.

INDIVIDUALIST.

Council Election

SIR,—Will you permit me, through your columns, to urge all proprietor pharmacists to cast their votes for the candidates who are, above all else, 100 per cent. supporters of National Pharmaceutical Union policy. The Pharmaceutical Society was formed by a body of pioneers drawn mostly from the ranks of the retail section. We have travelled a long way since then and perhaps along some strange paths. All the same, let us not forget that the funds of the Society are, even now, maintained largely from the pockets of the retail pharmacists.

Stourbridge. ALFRED C. YEATES.

Baby Foods Under N.H.S.

SIR,—The inclusion of infants in the new N.H.S. scheme introduces a wider problem to doctors and pharmacists than the mere medical treatment of illness and care of health. Rationed and registered at every turn, a mother is ever seeking extra vitamins and dietary supplements for her infant. At present she is offered these in great variety at clinics. I have been invited to state on what terms I am prepared to consider distributing such items as dried milk foods, vitamin foods, etc. My terms, and I hope all pharmacists will concur, are (in all cases except hardship) cash over the counter at current retail prices. In necessity due to child neglect or other similar cause I would accept a hit from, say, the Public Assistance Department, with part or all of the full retail price provided from public funds. Pharmacy made the tragic blunder in 1913 of offering to bear the burden of providing drugs and appliances under N.H.I. at "charity" prices. It has taken two major wars and a social revolution to give us even the hopes of fair remuneration. Let us not repeat our former blunder. If baby foods are too expensive for the masses, then let the Government subsidise the manufacturers, but let distribution be on a business footing.

Barking. ERNEST A. DARLEY.

Experienced Dispensers

SIR,—As a dispenser with more than thirty years' experience, it is my opinion that the Pharmaceutical Society has a duty to any person who has served an indentured apprenticeship in pharmacy. The majority of your readers know the value of the experienced dispenser. I could enlarge on their value in pharmacy, but your readers know as well as the dispensers that the only supervision in many cases is the certificate hung in the shop. For the benefit of Richard Deering (*C. & D.*, April 17, p. 511), we have in this district a group of dispensers who are meeting regularly to discuss their position and to plan ways of obtaining recognition in pharmacy. Only by their own efforts will a status be obtained.

Sheffield. STUDENT ASSOCIATE.

FIFTY YEARS AGO

Comment on the 1898 B.P.

(*From the C. & D., May* 7, 1898)

THE more closely the Pharmacopœia is scrutinised, the more marked become the inconsistencies and contradictions with which it abounds. . . . It has been remarked by a competent critic that "pedantry has been rampant" in the construction of the present Pharmacopœia. This is the explanation in a nutshell. On what other hypothesis would it be possible to explain why, for example, the primitive mustard seed should be grandiloquently described as "one millimetre in diameter and one-and a-third milligramme in weight" whilst coca and its preparations are passed by without so much as a hint that their medicinal value is wholly dependent upon the presence of an alkaloid? Again, notwithstanding the most precise botanical definition of the source of ipecacuanha root, accompanied by elaborate precautions to exclude the Cartagena variety, no information is vouchsafed as to the proportion of alkaloid the root should contain, although there is a standardised extract made from it. — *Mr. F. W. Fletcher, Ph.C.*

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, May 5

DEMAND for PHARMACEUTICAL and FINE CHEMICALS for export has been well maintained but home trade business continues slow. Principal price changes during the week have included increases, announced on May 4, of one penny per lb. in the rates for ASPIRIN and three halfpence per lb. in those for SALICYLIC ACID and SODIUM SALICYLATE. The prices of ASPIRIN TABLETS have been advanced by one penny per thousand tablets. The increases were not unexpected; production costs have been rising since the last increase was made (January 1947) in the prices of the products. The market for ACETANILIDE is firm but prices are unchanged.

There has been little activity in BOTANICAL DRUGS during the past week and prices generally are unchanged. Business in AGAR is held up as prospective foreign buyers are unable to secure import permits. Cape ALOES is tending easier and a small reduction has been made in quotations for ERGOT. The market for GUM ARABIC has eased slightly after a period of firmness. MYRRH is a somewhat easier market. MENTHOL continues firm with resellers offering May-June shipment at 41s., c.i.f. RHUBARB is fairly steady on spot with good-quality rough round offered at 5s. Prices of SEEDS are little changed on the week; the Board of Trade announces that individual import licences are now required for CORIANDER SEED imported into the United Kingdom. WAXES are steady with the market quiet.

The market for ESSENTIAL OILS continues on a subdued level with most oils attracting little interest. EUCALYPTUS OIL is tending easier. Both LAVANDIN and LAVENDER are easy markets. LIME OIL is firmer at source and spot prices have risen.

U.S. Drug and Chemical Report

New York, April 30

PRINCIPAL features during the week have been reductions in the prices of a number of commodities including MENTHOL and MERCURY; spot quotations for the former now range from $8.30 to $8.50 per lb., bringing the product into line with the cost of material afloat ($8.25 per lb.). A reduction of $1 per flask brings mercury prices to the lowest level since the war; the price range is now $75 to $77 per lb. Lower prices were also recorded for ALCOHOL and OPIUM.

The CRUDE DRUGS and SPICE markets continue generally inactive and prices are still tending lower. Reductions have been noted in DANDELION ROOT and in ELDER FLOWERS, Argentine CORIANDER SEED, MACE, NUTMEGS, PEPPER, and Mexican VANILLA BEANS.

The ESSENTIAL OILS market was marked by further weakening during the week and a long list of products were available at lower prices; AROMATIC CHEMICALS, however, were quite firm.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	May 5
*Alexandria ...	Piastres to £	97¼—97¾
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Pence to rupees	1-5 15/16—1-6 1/16
Brussels	Francs to £	176½—176¾
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
Dutch West Indies	Florins to £	7.59—7.61
*Hong Kong ...	Pence to $	1-2 19/16—1-3 1/16
Lisbon	Escudos to £	99.80—100.20
Montreal	Dollars to £	4.02¾—4.03¼
New York ...	Dollars to £	4.02¾—4.03¼
Oslo	Kroner to £	19.98—20.02
Paris	Francs to £	863.4—864.6
Rio de Janeiro ...	Cruz to £	75.3948
*Singapore ...	Pence to $	2-4⅛—2-4 7/32
Stockholm ...	Kronor to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates

Pharmaceutical Chemicals

ASCORBIC ACID.—Current quotations are at from £23 10s. per kilo, upwards.

ASPIRIN.—Makers' new prices per lb. for powder (containers in brackets) from May 4 are: 1-cwt. lots (28-lb.), 3s. 7d.; resellers' schedule rates for quantities of 28 lb. and under 1 cwt., 4s. 6d. (1-lb.), 4s. 5d. (2-lb.), 4s. 4½d. (4-lb.), 4s. 3½d. (7-lb.), 4s. 3d. (14-lb.), 4s. 2d. (28-lb.). Net one month.

ATROPINE.—Home trade prices per oz. are as follows: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE, 75s.

BARBITONE.—Base and soluble are available at prices from 43s. 6d. to 46s. per lb.

BARIUM SULPHATE, B.P. (*x*-ray).—1 cwt. is quoted at 1s. 3d. per lb. Schedule rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.), 1s. 7d. (2-lb.), 1s. 6½d. (4-lb.), 1s. 5½d. (7-lb.), 1s. 5d. (14-lb.), 1s. 4d. (28-lb.).

BENZOCAINE.—Current rates per lb. are 40s. 9d. for 28-lb. lots and 41s. 3d. for 14-lb.

BUTYL CHLORAL HYDRATE.—Current prices are from 17s. 6d. per lb. upwards.

CALAMINE.—B.P.C. quality is quoted at prices from 1s. 2d. to 1s. 10d. per lb.

CALCIFEROL.—Quotations for the home trade are from 10s. to 11s. per gm.

CARBACHOL, B.P.—Price of small quantities is in the region of 5s. per gm.

CITRATES.—Makers' rates are as follows: POTASSIUM, 5-cwt. lots, 2s. 9½d. per lb., 1 cwt., 2s. 10½d.; schedule prices for quantities of 28 lb. to 1 cwt., per lb., are as follows (containers in brackets): 3s. 8½d. (1-lb.); 3s. 7d. (4-lb.); 3s. 6d. (7-lb.); 3s. 5½d. (14-lb.); 3s. 4½d. (28-lb.). FERRI ET AMMON. CIT., B.P., 7d. per lb. above. SODIUM, B.P., 3d. per lb. below; POWDER, 1d per lb. extra.

CODEINE.—Current prices per oz., in the home market, are: ALKALOID, ½ oz., 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. HYDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4oz., 41s. 6d.; PHOSPHATE, ½ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. HYDROBROMIDE and IODIDE as ALKALOID; SULPHATE as HYDROCHLORIDE.

CREAM OF TARTAR.—Current rates for the home trade are as follows: 10-cwt. lots, 181s. per cwt.; 5 to 10-cwt., 182s.; less than 5-cwt. and more than 2-cwt., 183s.; less than 2-cwt. and more than 1-cwt., 185s.

EMETINE.—Makers' rates per oz. are as follows: HYDROCHLORIDE, 1 oz., 202s.; 4 oz., 195s.; 16 oz., 192s. 6d.; 32 oz., 190s. BISMUTH IODIDE, 1 oz., 101s. 6d.; 4 oz., 100s.; 16 oz., 98s. 6d.; 32 oz., 97s.

ERGOMETRINE.—Makers' prices per gm. are as follows: BASE, in quantities of 1 gm., £20; 5 gm., £19 5s.; 20 gm., £19. ACID MALEATE, 1 gm., £14 15s.; 5 gm., £14 5s.; 20 gm., £14.

ESERINE SALTS. — Current price for SALICYLATE is 150s. and for SULPHATE 170s. per oz.; ALKALOID is 190s. per oz.

ETHYLMORPHINE.—Current rates per oz., in the home market, are: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d.; HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. lower than above rates; other quantities in proportion.

HÆMOGLOBIN. — Quotations are from 2s. 6d. to 3s. 6d. per lb., as to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

HEXOBARBITONE.—Prices are around 170s. per kilo; in good demand.

LACTATES.—Current quotations are as follows: CALCIUM, 2s. 2½d. to 2s. 10½d.; CALCIUM SODIUM, 3s. 3d. to 3s. 11d.; ACID, 3s. 1½d. to 3s. 10d. per lb.

PILOCARPINE. — Makers have reduced their prices. New rates per oz. from March 25 are as follows: ALKALOID.—1 oz., 36s. 9d.; 4 oz., 35s. 3d.; 25 oz., 34s. HYDROCHLORIDE.—1 oz., 34s. 9d.; 4 oz., 33s. 3d.; 25 oz., 32s. NITRATES.—1 oz., 33s 3d.; 4 oz., 31s. 9d.; 25 oz., 30s. 6d.

ROCHELLE SALT.—Current rates per cwt. are as follows: 1 cwt., 162s. 6d.; 5 cwt., 160s. SEIDLITZ POWDER, ordinary strength is quoted at 126s. 3d.; extra strong, 136s.; and double strength, 141s. 9d. per cwt.

SALICYLIC ACID.—New rates per lb. from May 4 for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

SALOL, B.P.C.—Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are around 7s. 6d. to 8s. per lb.

SODIUM SALICYLATE.—Makers' price from May 4 for 1 cwt. is 2s. 7d. per lb.; resellers' rates per lb. (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 3s. 4d. (1-lb.); 3s. 3d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d. (7-lb.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net one month.

SULPHANILAMIDE.—Prices are steady as follows: 5-cwt., 6s. 3d.; 1-cwt., 6s. 6d.; 28-lb., 6s. 10d.; 14-lb., 7s.; 7-lb, 7s. 9d. per lb., net; packing extra.

SULPHANILIC ACID, B.P.C. — Current quotations are around 6s. per lb.

SULPHONAL.—Prices are from 44s. to 53s. per lb.

TANNIC ACID.—B.P. levis is from 8s. 9d. per lb.; ether soluble, from 9s. per lb.

TERPINEOL.—B.P. quality is priced at 5s. per lb. for small lots.

THEOPHYLLINE ETHYLENE DIAMINE.—The current price is 97s. 6d. per lb.

THIOGLYCOLLIC ACID.—Supplies are available at 22s. 6d. per lb.

THIOURACIL, B.P.C.—Quotations are unchanged at 55s. per lb.

THYMOL, B.P.—Makers' quotations are from 17s. 9d. to 18s. 6d. per lb., with offers of small quantities up to 20s. per lb.

THYROXINE SODIUM.—Makers' prices per gm. are as follows: 1 gm., 50s.; 10 gm., 45s.; 100 gm., 40s.

URETHANE. — Quotations are around 16s. 6d. per lb.

VALERIANATES.—Current quotations for quantities of 1 cwt. and over: IRON, SODIUM and ZINC, 42s. 6d. per lb.; AMYL ISOVALERATE, 37s. 6d.; ETHYL ISOVALERATE, 43s. 9d.; METHYL ISOVALERATE, 44s. 3d. MENTHYL is quoted at 95s. 6d. per lb.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb. Supplies from maker are on quota.

Crude Drugs

ACONITE.—Indian root on the spot is offering at 300s. per cwt. A quiet market.

AGAR.—No. 1 quality strip on the spot is offered at 19s. to 19s. 6d. per lb., with lower grades at 17s. 9d. to 18s. 6d.

ALOES.—Cape, on the spot, is offered at 145s.; shipment offers are at about 138s., c.i.f. Curaçao in boxes is offered at 210s. to 230s., spot; forward, 200s. per cwt., c.i.f. Socotrine on the spot is quoted at 156s. to 190s. per cwt.

ASAFETIDA.—Persian block is offering at £22 10s. to £24 per cwt., spot, with lower quality material (Indian) down to £15.

BALSAMS.—Canada is offering at 18s. 6d. per lb., spot. Pará *Copaiba*, spot, 5s. per lb. for soluble. *Peru*, San Salvador, on the spot, is offering at 5s. 6d. to 5s. 9d. per lb., duty paid. *Tolu*, 18s. 6d. per lb., spot.

BENZOIN.—Supplies of Sumatra almondy block on the spot are offering at prices from £15 to £17 per cwt., as to quality. Siam almonds is available at 30s. per lb.

BISMUTH.—Current price of metal is 11s. per lb. for quantities of 5 cwt.

BUCHU.—B.P. leaves, old-crop, quoted from 4s. 2d. to 4s. 3d. per lb., spot; new-crop, now afloat, is offering at 3s. 11d.; for shipment, 3s. 8d., c.i.f. Old-crop ovals are available on the spot at 3s. 9d. to 4s. per lb.

CAMPHOR.—Chinese tablets are offered at 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.) is quoted at 9s. 3d. to 10s., with B.B. grade at 8s. 6d. to 9s.; crude powder, 7s. 6d.

CARDAMOMS. — Mangalore half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds No. 1 are quoted at 8s. 6d. per lb. Aleppy greens, 6s. 3d.; extra bold, 7s.

ELEMI.—Manila No. 1 is offered at 2s. 3d. per lb., on the spot.

GUAIACUM RESIN.—Quotations for lump are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts is quoted 66s. 6d. per cwt., spot London; for shipment, 62s., c.i.f. Bleached No. 1 is quoted at 140s., ex store. Talha cleaned 40s. per cwt., ex warehouse; 40s., c.i.f.

IPECACUANHA.—Nicaraguan is offered at 27s. per lb., spot; April-May shipment, 22s. 6d., c.i.f.; Colombian root, 25s., spot, and 21s. per lb., c.i.f.

IRISH MOSS. — French finest-quality bleached, quoted at 120s. per cwt., spot; No. 1, 105s.; No. 2, 95s. per cwt.

JABORANDI LEAVES.—Supplies on the spot of f.a.q. are offering at 9d. per lb.

JUNIPER.—Italian berries, quoted at from 55s. to 60s. per cwt., duty paid.

KOLA NUTS.—African quarters are quoted at 4d. per lb.; African halves, 3d. to 4d., according to quality; Jamaican washed halves, 4½d. per lb.

LIQUORICE.—Anatolian natural root is offered at 52s. 6d. per cwt., spot. Syrian natural is offering at 45s. to 48s. per cwt. on the spot. Italian block, 375s. per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade. Turkish block is steady at 235s. to 240s. per cwt.

MACE.—West-Indian blade, on the spot, is quoted at 7s. 3d. per lb.; pickings, 4s. 6d. to 5s. 6d., according to quality.

MENTHOL.—Firm. Brazilian on the spot is quoted at 43s. 6d. to 46s. per lb., duty paid, according to seller.

MERCURY.—Spot, £16 per flask, ex warehouse; for shipment, £15 8s., c.i.f. U.K.

MYRRH.—Aden sorts is from £13 to £14 per cwt.; siftings, £8 to £10 per cwt., spot.

NUTMEG.—West Indian 80's are quoted at 3s. 6d. per lb.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 9d. to 1s. 10d. East Indian 80's, 4s., spot.

OLIBANUM.—Fair to good drop is quoted from 200s. per cwt.; pea size, 210s.; good garblings, 170s.; seeds, 175s.; siftings, 100s.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d. per lb., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. in Liverpool.

ORRIS.—Florentine, spot, 185s. to 195s. per cwt., according to quality. Verona, for shipment, 105s., c.i.f.

PAPAIN.—East African No. 1 is offering at 26s. per lb. on the spot; Ceylon, 22s.

PIMENTO.—Spot is quoted at 1s. 2d. per lb.; to arrive, 119s. per cwt., c.i.f.

PODOPHYLLUM.—Indian is quoted at 330s. per cwt., spot. American (*peltatum*) is available at 3s. 3d. per lb., duty paid.

PSYLLIUM SEED.—French black is offered at 2s. 3d. per lb., duty paid.

QUILLAIA.—Natural bark is quoted at prices from 105s. per cwt., spot.

QUASSIA.—Chips, on the spot, are offered at 40s. per cwt.; new-crop for June shipment will be available at 37s. 6d., ex wharf.

QUINCE SEEDS.—Cape, on the spot, is quoted at 4s. 6d. to 5s. 3d. per lb.

RHATANY.—Spot is quoted at 9d. per lb.

RHUBARB.—Chinese rough-round on the spot is quoted from 4s. 6d. to 5s. 3d. for sound root of good fracture, with 2s. 6d. to 3s. 6d. per lb. quoted for wormy material.

SANDALWOOD CHIPS.—Supplies on the spot, for export, are offered at 350s. per cwt. and a fair inquiry is reported.

SANDARAC.—Spot supplies are quoted at 5s. 9d. per lb.; shipment, 4s. 9d., c.i.f.

SARSAPARILLA.—Jamaican native red on the spot at 2s. 4d. per lb.; shipment quotations are at 2s. 3d., c.i.f.

SEEDS.—ANISE.—Cyprus, 1s. 8d. per lb., and Turkish, 1s. 7d. per lb., duty paid, in London. CARAWAY.—Dutch are unchanged at 11d. per lb., duty paid, ex wharf London.

CELERY.—Indian offered at 1s. 3d. per lb., spot London or Liverpool. CORIANDER.—Market is unchanged. Argentine, spot London, is quoted at 45s. per cwt., duty paid, and splits at 35s. per cwt., duty paid, ex store London or Liverpool. CUMIN.—Indian is quoted at 215s. to 217s. 6d. per cwt., in London or Liverpool; Cyprus is offered at 215s. per cwt., spot London. DILL.—Indian is firm at 47s. 6d. per cwt., ex wharf London, and 46s. per cwt., spot Liverpool. FENNEL.—Indian is quoted at 72s. 6d. per cwt., spot London, and 71s. 6d., ex store Liverpool. FENUGREEK.—Firm. Indian, spot London, is quoted at 47s. 6d. per cwt., and 46s. 6d., ex store Liverpool; the shipment price is 43s. 6d. per cwt., c.i.f.

SENEGA.—Spot prices are at 11s. per lb. Remains quiet, with few inquiries.

SENNA.—Tinnevelly leaves on the spot, offered as follows: No. 1, 9d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 6d.; No. 4, 5½d. to 6d. Tinnevelly pods, handpicked, 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, handpicked, spot, from 4s. 9d. to 5s. 9d., according to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb., Alexandrian leaves, 1s. 2d. per lb. quoted for f.a.q.

SHELLAC.—Spot quotations, ex warehouse, are as follows: F.O.T.N., pure, 340s.; Standard No. 1, 350s.; fine orange, 355s. to 395s. per cwt.

SQUILL.—Italian white is quoted at 52s. 6d. per cwt., spot; Italian red, 84s.

STRAMONIUM.—Hungarian, on the spot, is offered at 105s. per cwt.; Indian, 60s.

TURMERIC.—Madras finger is quoted at 120s. per cwt., spot; near afloat, 117s. 6d., c.i.f.; Jamaica is reported quoted at 85s., spot.

UVÆ URSI.—Spot quotations are from 10d. to 1s. per lb.

VALERIAN.—Belgian root is at 175s. to 180s. per cwt., according to holder; Indian, 160s. per cwt.

WAXES.—The market continues quiet with few price changes. BEES'.—Dar-es-Salaam on spot is steady at 375s. per cwt.; shipment, 350s., c.i.f. Lindi is offering at 365s. per cwt., spot; Benguela is 365s., duty paid, and 330s. in bond; to arrive, 312s. 6d., c.i.f. CANDELILLA.—Spot is quoted at 390s. per cwt.; future delivery, 385s. CARNAUBA.—Fatty grey is easier at 475s. per cwt.; afloat, 420s., c.i.f.; for shipment, 410s., c.i.f. Prime yellow on spot is cheaper at 775s., and shipment quotations are reduced to 680s., c.i.f. MONTAN.—Reibeck, 310s. per cwt.; Czechoslovak crude, 270s. per cwt., spot. OURICURI.—6 per cent., on spot, 375s. per cwt. quoted. 5 per cent. shipment, 385s., c.i.f. 1 per cent. on spot is offered at 420s.; shipment, 400s., c.i.f. 2 per cent., spot, 415s.; shipment, 400s., c.i.f. SPERMACETI.—Quotations for supplies on spot are unchanged at 3s. 3d. per lb.

Essential and Expressed Oils

ALMOND.—Sweet oil (B.P.) is offering at 8s 6d. to 9s. per lb. Bitter essential oil is quoted from 30s. to 55s. per lb., according to quality and seller.

ANISE. — Chinese star, on the spot, in drums is offered at 5s. 9d. per lb.; 5s. 6d., c.i.f. In tins in cases, quotations are at 6s. 1½d. per lb., spot; shipment, 5s. 8d., c.i.f.

CAMPHOR.—White oil on the spot is quoted at 2s. 10d. to 3s. per lb., duty paid.

CANANGA.—Java oil on the spot is quoted from 32s. 6d. to 37s. 6d. per lb.; 28s., c.i.f.

CARAWAY.—English-distilled is offered at from 38s. to 40s. per lb.; imported oil is quoted at from 30s. to 32s. 6d.

CASSIA. — Spot quotations are from 16s. 6d. to 17s. per lb., as to quantity.

CINNAMON.—Ceylon bark oil is available at 12s. 6d. per oz.; English-distilled, from 24s. to 40s. per oz.; B.P. oil is at 65s. to 75s. per lb. Leaf oil, spot, is quoted at from 7s. 9d. to 9s. per lb.

CITRONELLA.—Ceylon in drums is offered at 3s. 9d. to 4s. 3d. per lb., spot; shipment, 3s. 3d., c.i.f. Java is nominal at 10s. to 12s. per lb. on the spot; 8s. 3d. in bond; shipment, 7s., c.i.f.

EUCALYPTUS.—70-75 per cent. (B.P.) is offering at 4s. 6d. per lb. for drums, and up to 6s. 6d. for smaller quantities; shipment, 3s. 8d., c.i.f.

GERANIUM.—Bourbon is available at prices from 60s. to 70s. per lb., as to grade.

LAVANDIN.—Easy. Spot quotations are from 9s. 6d. to 11s. 6d. per lb., as to grade.

LAVENDER.—Easy. French, 38-40 per cent. is at 23s. to 25s. per lb., spot; 40-42 per cent. 25s. to 27s. 6d. Spanish (spike) is steady at 9s. 6d. to 11s. 6d. per lb., spot.

LEMONGRASS—Spot supplies are offered at 6s. 9d. to 7s. 6d. per lb., according to holder and quantity; forward, 6s., c.i.f.

LIME.—West Indian is maintained at from 28s. to 30s. per lb., according to holder and quantity.

NUTMEG.—English-distilled oil is offered at from 39s. to 40s. per lb.

ORIGANUM.—Quotations are from 18s. 6d. to 20s. per lb., spot, according to holder.

PALMAROSA.—Supplies on the spot are quoted at 35s.; forward, 29s. per lb., c.i.f.

PATCHOULI.—Spot quotations are from 50s. to 60s. per lb. for Seychelles and 65s. to 70s. per lb. for Singapore.

PENNYROYAL.—Steady on the spot at from 19s. to 21s. per lb., according to quantity and grade.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

VETIVERT.—Java is quoted at 135s. per lb., on the spot; Bourbon, 125s. to 145s.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

TRADE MARKS

(*From "The Trade Marks Journal," April* 14)

"ACIFOLUM"; for pharmaceutical preparations and substances (5). By Hirst, Brooke & Hirst, Ltd., Sheepscar Street South, Leeds. 658,124.

"NOXIT"; and "CORNOX"; for chemical preparations for killing weeds (5). By Boots Pure Drug Co., Ltd., Nottingham. 658,196-97.

"ATHELLO"; for pharmaceutical products (5). By Affined Basic Chemicals, Ltd., 42 The Broadway, London, W.5. 658,239.

"ORTHOGON"; for ophthalmic lenses (9). By Bausch & Lomb Optical Co., 635 St. Paul Street, Rochester, New York, U.S.A. 651,595 (Associated).

"LUMAR"; for photographic and optical lenses (9). By Barnet Ensign, Ltd., Fulbourne Road, London, E.17. 656,603.

(*From "The Trade Marks Journal," April* 21)

"POTNITROM"; for potash fertilisers (1). By the Highdale Soil Laboratory, Headley Road, Leatherhead, Surrey. 654,451.

"ZEO-REX"; for ion-exchange materials, being chemical products for use in the treatment of liquids (1). By the Permutit Co., Ltd., Gunnersbury Avenue, London, W.4. 656,622 (Associated).

"HORMOGEN"; for chemical fertilisers (1). By Branded Sales, Ltd., Bath Road, Slough, Bucks. 657,069.

"VAPONA"; for chemical products for use in agriculture and horticulture (1); for insecticides, larvæcides, fungicides, and preparations for killing weeds (5). By Shell Chemicals, Ltd., 22 Great St. Helens, London, E.C.3. 657,663-64 (Associated).

"MELOFAST"; for chemical products used in industry (1). By Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1. 658,383.

"SANS-GENE" in distinctive lettering; for toilet preparations (not medicated), cosmetics, perfumes and dentifrices (3). By Henri Bendel, Inc., 10 West 57th Street, New York, U.S.A. 648,306.

"ITZET"; for non-medicated toilet preparations, cosmetics, soaps, perfumes, essential oils, hair lotions and dentifrices (3). By Martin, Phillips & Co., Ltd., 16 Cobden Street, Leicester. B651,632.

"POLASTION"; for non-medicated toilet preparations, cosmetics, perfumes, soap, hair preparations and essential oils. (3). By Polastion, Ltd., 15 St. Helen's Place, London, E.C.3. 654,728.

"HELENE CHANTALE" in distinctive lettering; for sachets and preparations for hair waving; and toilet preparations for the hair (3). By Permal Laboratories, Ltd., Park Road, Hull. B655,882.

"OZAC"; for cosmetics (other than toilet preparations) (3). By Hough, Hoseason & Co., Ltd., Levenshulme, Manchester, 19. 656,413.

"RADIANT" on label design; for soaps (3). By Joseph Watson & Sons, Ltd., Whitehall Road, Leeds. 656,576. (Associated).

"LA DUVESSE"; for non-medical toilet preparations, perfumes and lipsticks (3). By the General Kaputine Syndicate, Ltd., Fields New Road, Chadderton, Oldham, Lancs. 657,486. (Associated).

"QUEENSWAY BRAND" and pictorial device; for essential oils (3). By A. E. Bevan, Ltd., 20A Hall Street, Southport. B655,920 (Associated).

"KHASANA" on label design (letter "K" disclaimed); for perfumes, non-medicated toilet preparations, cosmetics, dentifrices, sachets for hair waving, soaps and essential oils (3). By R. Hovenden & Sons, Ltd., 29 Berners Street, London, W.1. 656,506 (Associated).

"REXERAY"; for non-medicated toilet preparations, cosmetics, perfumes and soap (3). By Rex Ray Co., 14 Bridge Street, Aberdeen. 656,823.

"DROSH"; for cleaning preparations for the hands (3). By Fletcher Miller, Ltd., Hyde, Manchester. 657,523.

"NASADIM" for non-medicated toilet creams (3). By Amy Blackburn's Chryzla Beauty Preparations, 16 Old Bond Street, London, W.1. 658,025.

"BOUCLETTE"; for perfumes, non-medicated toilet preparations, cosmetics, dentifrices, sachets for hair waxing, soaps and essential oils (3). By Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1. 658,380.

"CHILBO"; for medicated tablets and ointment for skin complaints (5). By Amovon, Ltd., Southfield Lane, Bradford, Yorks. 646,540.

"CAVANDAN"; for pharmaceutical preparations for eradicating dandruff (5). By Hyman Cohen, 6 Percy Street, Ibrox, Glasgow. 651,750.

"QUINAMON"; for medicated preparations for human use (5). By Vermex Chemical Co., Ltd., 20 Queen Street, Blackpool, Lancs. 652,134.

"LIQUID ATOMICIDE SPRAY"; for liquid preparations for destroying insects by spraying (5). By Modern Vermin Service, 164 Kingshill Drive, Kenton, Middlesex. B652,514.

"KIDDATONE"; for pharmaceutical preparations (5). By Thomas Tosh, 13A Southdown Road, Great Yarmouth, Norfolk. 653,786.

"SANIGLAS"; for sterilising preparations in liquid form for use on glassware (5). By Universal Detergents, Ltd., Abbey Road, London, S.W.19. 654,899.

"THIASOLUFON"; for preparations consisting of or containing thiazoles, all for pharmaceutical and veterinary use; "VASOPAC"; for pharmaceutical preparations for injection into the vascular system for diagnostic purposes; "THIANTIN" and "PLANASIN"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 655,210, 655,560, 665,460 and 657,123.

"BROZANTHINE"; for medicated preparations containing a derivative or compound of urea (5). By Nor-Sun, Ltd., 160 Central Drive, Blackpool. 655,458.

"PYRIT"; for insecticides for export to Sweden (5). By Bayer Products, Ltd., Kingsway, London, W.C.2. B655,821.

"HÆMOPAX"; for pharmaceutical preparations and substances for use in the treatment of the blood (5). By Clinical Products, Ltd., 2 The Green, Richmond, Surrey. 656,608.

"METHYMOL"; for pharmaceutical preparations and medicated sweetmeats, all containing thymol; "PEPSI-JESTIFS"; for pharmaceutical preparations (5). By W. James Davies (Western), Ltd., North Road, Maindy, Cardiff B656,639-40.

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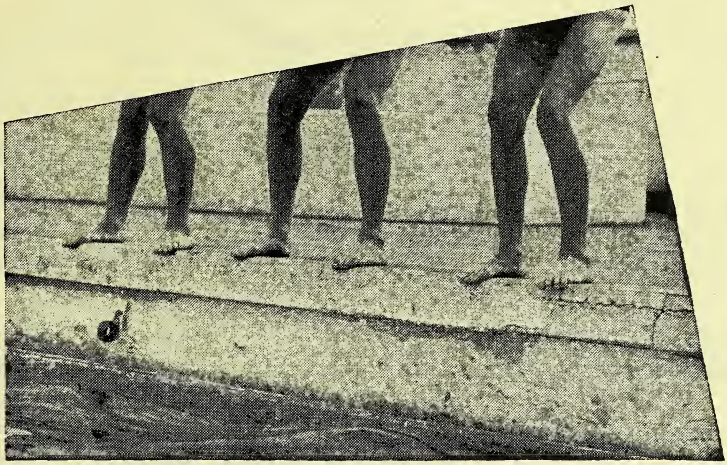

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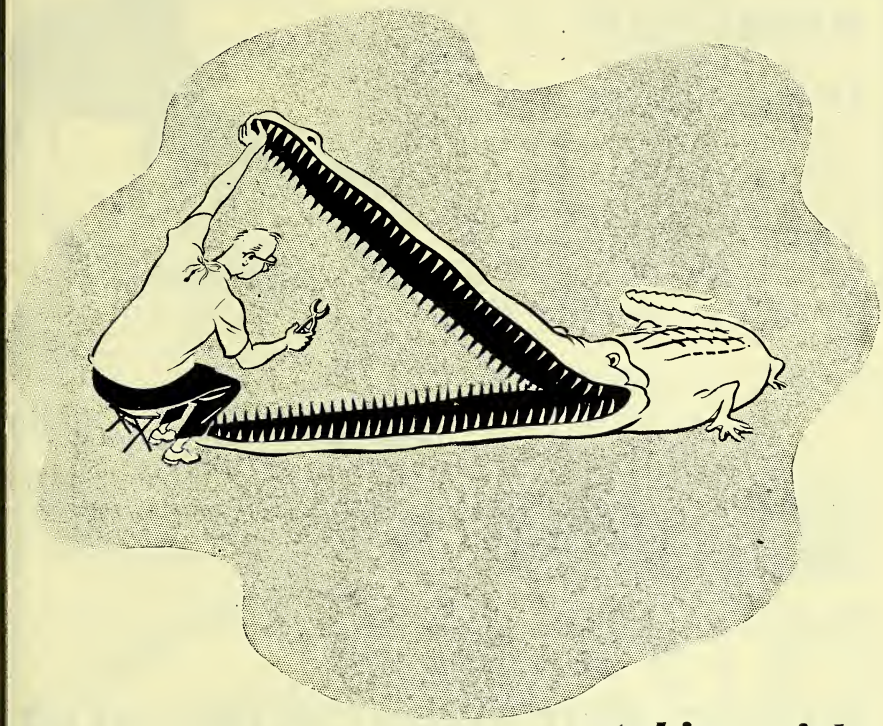

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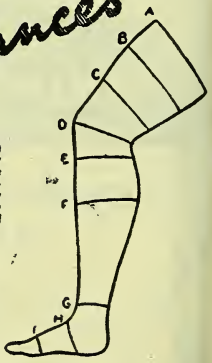

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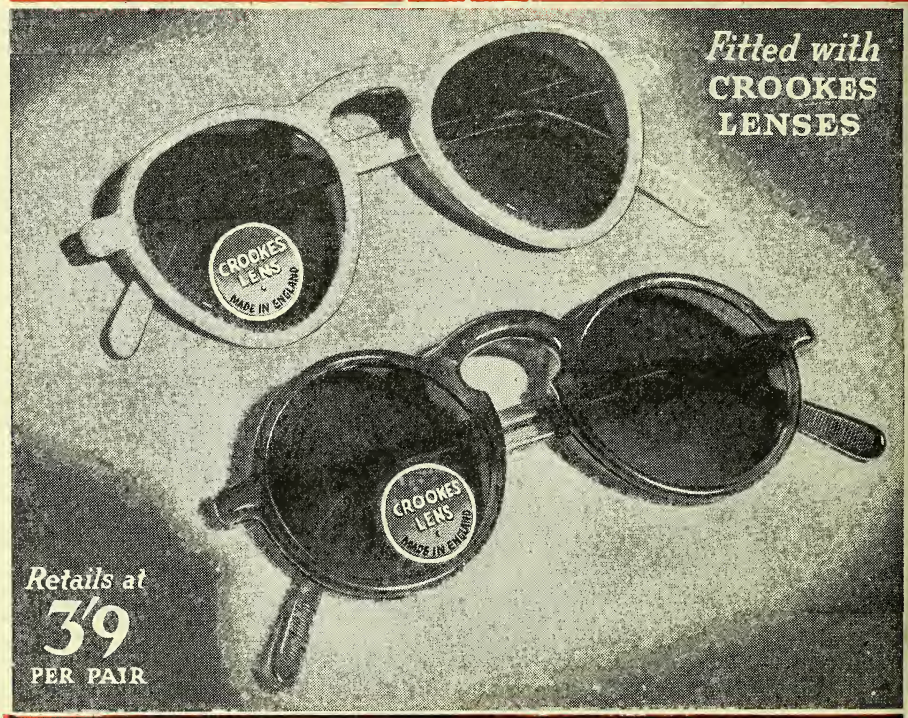

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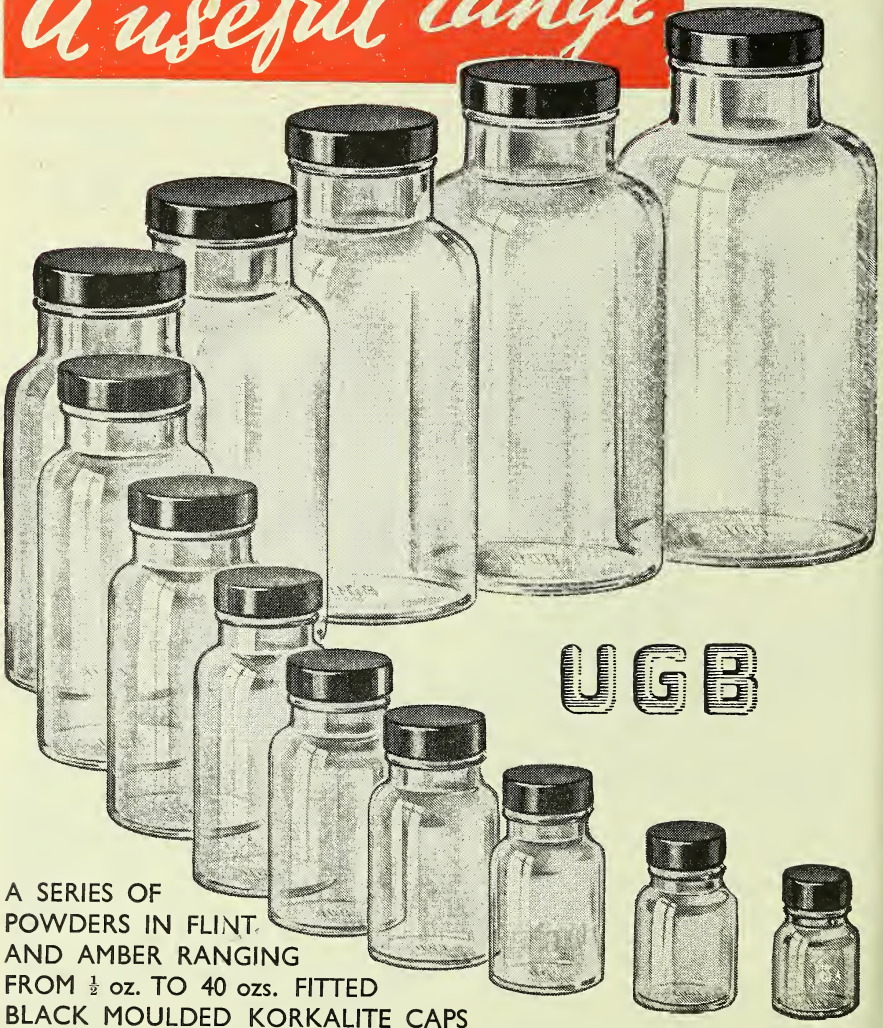

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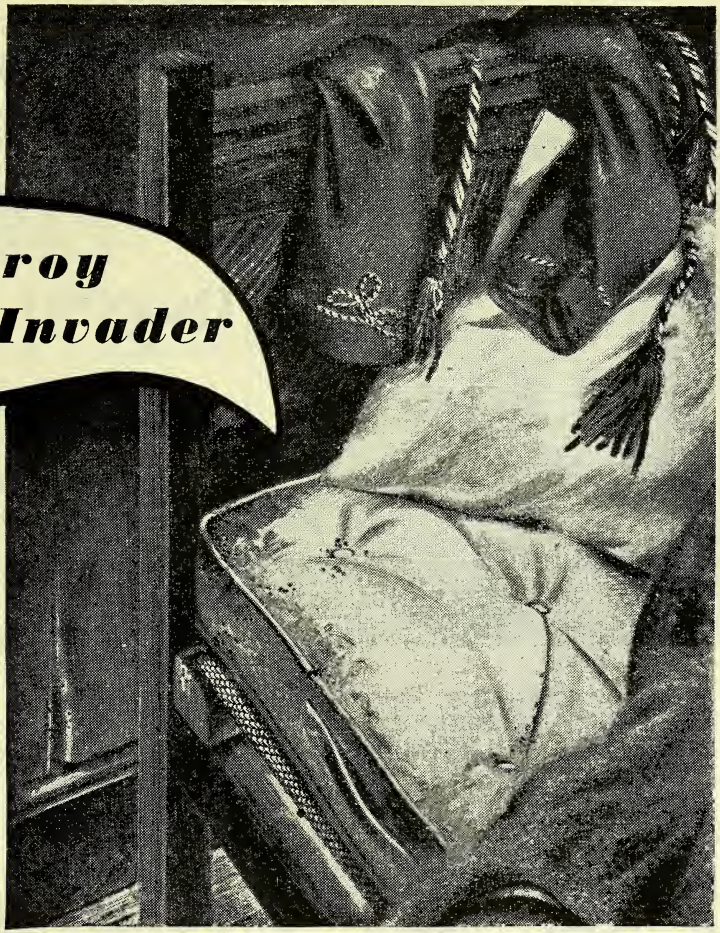

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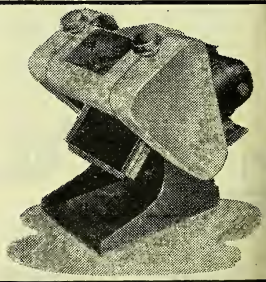

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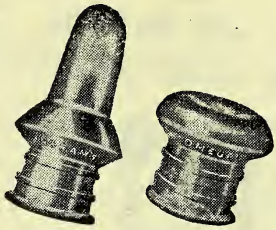

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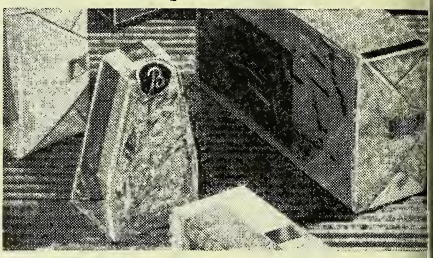

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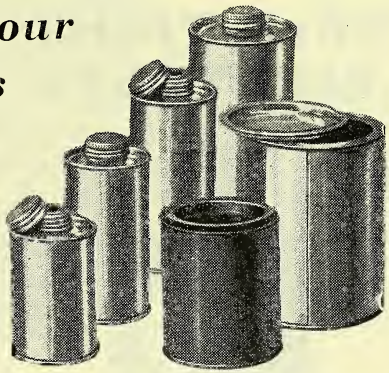

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immediate delivery

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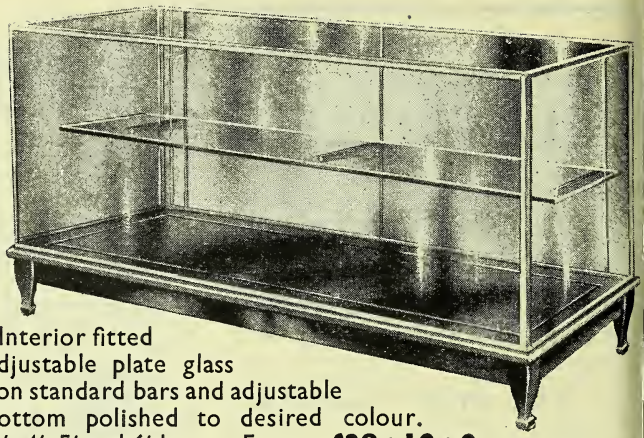
Polished Oak or Mahogany Glass Counter. Glazed quarter drawn glass top front and ends. The back enclosed by two glass sliding doors on metal tracks. Interior fitted one row 12" wide adjustable plate glass shelves on lacquered iron standard bars and adjustable brackets. Wood bottom polished to desired colour. All 3' high; 2' wide; 3', 4', 5' and 6' long. From **£28 : 10 : 0**



POTTERS (LONDON) LIMITED

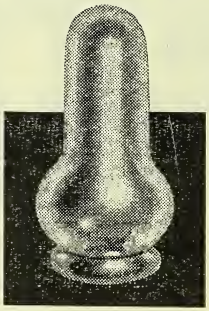
Write or phone your requirements and for lists.

97-99 ST. JOHN STREET, CLERKENWELL, LONDON, E.C.1

PHONE: CLERKENWELL 2171/2

No connection with Wm: Potter & Sons, Limited formerly of 160 Aldersgate Street, London, E.C.

GRIP-TIGHT FEEDTEATS



USED BY HOSPITALS AND WELFARE CLINICS THROUGHOUT THE WORLD

LEWIS WOOLF LTD.

144, Oakfield Road, Selly Oak, Birmingham, 29

LEDA

Washing Powder

This amazing new powder gives quicker whiter washing—quicker profits and turnover. Suitable for all fabrics including silks and woollens. Ideal for washing up and general household cleaning.

NO COUPONS

LEDA

Soapless Concentrate

Specially produced for washing delicate articles and other fabrics which require special care in washing. Contains no soda.

"Leda"

CHEMICALS LTD.

PONDERS END, MIDDLESEX

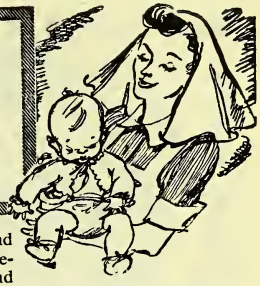
HOWard 2231

Sole Agents for Scotland:—

SOUTHERN MANUFACTURING CO. LTD.

214, West Regent Street, Glasgow, C.2

The DEMAND is in the DESIGN



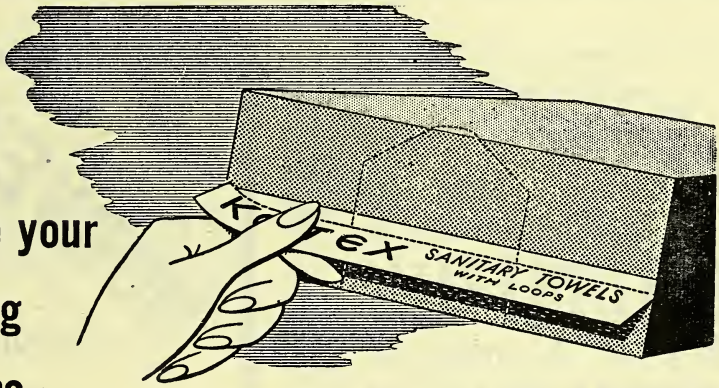
Extensive National Advertising in the Press and Women's Magazines is creating national demand for the "Modern" Teat. Used and recommended by Nursing and Medical Authorities for its new anti-colic design—nearest to natural feeding. Supply position easier. Stock up now. Obtainable from wholesalers only. Wholesale price 46/- per gross. Fixed retail price 6d. each.

B.I.F. 1948
OLYMPIA
MAY 3 - 14
SEE OUR EXHIBIT
STAND No. E.15

The "MODERN" ANTI-COLIC TEAT

Used and recommended by Maternity Hospitals Doctors, Nurses and Welfare Centres

THE CANNON RUBBER MANUFACTURERS LTD, LONDON N.17



To save your wrapping problems . . .

. . . . tear off perforated strip

For your convenience, Kotex has decided to revert temporarily to the plain pack with "tear-off" strip. Simply remove the strip and the plain pack is ready. Limited quantities are available for the wholesale trade.

KOTEX SANITARY TOWELS WITH LOOPS

Now 1/9d. per Box (C.P.R.C. Approved)

Cellucotton Products Ltd., 33/34 Aylmer Parade, London, N.2.

Here is the

NEW

'CALFOS'

ADVERTISING

★

Generous Profit Margin

Advertising is now appearing in daily papers and women's journals. This is a logical development of over 10 years of ethical selling and clinical trials. It will stimulate the demand for this palatable, natural form of calcium and phosphorus. *'Calfos' is an attractively priced, repeat sale line with a generous profit margin. Enquiries to our representatives or to:—*

CALFOS LTD., IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2

T.2

North-East Pharmacists send Your Enquiries to

NEWCASTLE UPON-TYNE
MIDDLESBROUGH
SCARBORO
HULL

MIDDLETON & Co. Ltd. Boundary Rd., MIDDLESBROUGH

TELEPHONE 3207

SPEEDY DELIVERY IN OUR OWN VANS WHEREVER POSSIBLE

DRUGS, GALENICALS, PILLS and TABLETS, ANALYTICAL CHEMICALS and REAGENTS

Wholesale only

"NORVEX" REGD.

ALL WOOL WITH LOOPS

SANITARY TOWELS

Made from the best Materials.

Remember "NORVEX" for Quality.

C. R. CROSSKILL & SONS NORWICH

DON'T MISS THE
GROVEWELL
STAND AT THE B·I·F

STAND No. E.94
DRUGGISTS' SECTION
OLYMPIA

FEATURING

"PUCK" UNDERCAPS

GROVEWELL FEEDING-BOTTLE TEATS & VALVES

GROVEWELL SOOTHERS

GROVEWELL LTD.
656, Forest Road, Walthamstow, London, E.17

AN ALL-BRITISH FIRM
have pleasure
in announcing that :—

RONCHOVYDRIN

is back on
the British Market.

●

This Inhalant for the Treatment of Asthma is now Obtainable from the

Manufacturers and Sole Distributors :—
BRONCHOVYDRIN (1945) Ltd.
12 WESTWOOD ROAD, BARNES, S.W.13

DT3*

THE
most popular
ANTI-MIDGE cream

DIMP is rapidly establishing itself as the most popular Anti-Midge Cream. Following on last year's successful season, DIMP is now re-appearing with a bright new display carton, attractive pictorial showcards and window bills in colour.

Display DIMP and benefit by the extra sales that greatly increased National Advertising will bring you.

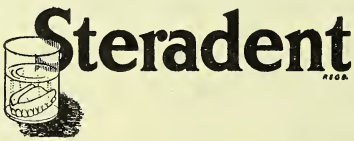
DIMP, a pure white, odourless, non-greasy cream, contains 50% dimethylphthalate.

SCOTT & TURNER Ltd
NEWCASTLE-UPON-TYNE

STERADENT AND THE NEW PLASTIC DENTURES

National advertising for Steradent has during the past year given special emphasis to the product's value in the cleaning of the new plastic dentures. Though supplies of Steradent are not at present equal to the demand, this advertising is a progressive development and one that will prove a source of valuable business to you in the future, for it links Steradent with a fast-growing section of the market.

Steradent has always been satisfactory for vulcanite dentures. We now have the assurance of the I.C.I., makers of 'Kallodent,' that Steradent is equally satisfactory for this brand of Acrylic Resin Dentures when used as directed. Meanwhile, in spite of production difficulties, we are doing our best to send you increased supplies.



CLEANS AND STERILISES EVERY TYPE OF DENTURE

STERADENT LIMITED, HULL AND LONDON

A Superfine Perfumed Borated Talc
SHOWING A MINIMUM PROFIT OF 8d. Per Tin
MADE BY CHEMISTS—SOLD ONLY BY CHEMISTS

Sole Agents:
MEGGESON & CO., LTD.
Chessington Hall, Chessington, Surrey
Manufactured by:
CARLTON PHARMACEUTICAL INDUSTRIES LTD, LONDON, W.3.

New Er

FINEST ITALIAN LIQUORICE JUICE STICKS
in 1 oz. size sticks in boxes containing
2½ lbs. at 10/- per box
(Minimum 2 boxes. Carr. paid C.W.O.)
ORDER IMMEDIATELY
LIMITED STOCKS
WHOLESALE ENQUIRIES INVITED

The Faylene Manufacturing Company
15 Queens Court, Lower Briggate, Leeds 1
Telephone 22594

G. O. WOODWARD & Co. Ltd.

Specialists in the manufacture of
COMPRESSED MEDICINAL TABLETS
HOME & EXPORT ENQUIRIES INVITED

146 Larkhall Lane, Clapham, LONDON, S.W.4.
Telephone: MACAULAY 4375

In slightly better supply

(THOUGH STILL RESTRICTED)

Now that a big advertising campaign is appearing in national newspapers and women's magazines, you will be glad to know that the Veet supply situation is slightly better than it was.

Retail prices:

Medium	*(inc. tax)*	**2/4**
Large	*(inc. tax)*	**4/4½**

We shall be delighted to send you 3 dozen of the medium or 1 dozen of the large size Veet.

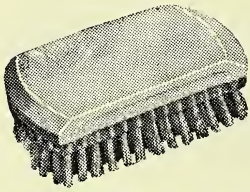
Trade prices:

Medium Size		**10/8** *per doz.*
	P. Tax	**12/-** *per doz.*
Large Size		**20/-** *per doz.*
	P. Tax	**22/6** *per doz.*

DAE HEALTH LABORATORIES LTD., 17 BERNERS STREET, LONDON, W.1

New Neolite Models

NEOLITE



Neolite Gent's Hairbrush

A man's brush of distinction in ivory finish. A style appealing strongly to all ages. Retail, inc. tax, plain top, 20/-. Fluted top, 25/-.

Neolite Bath Brush

A fascinating and graceful new design. The long handle is specially curved for added ease in use. The head can be detached to serve a dual purpose. A beautiful accessory for the modern bathroom. Retail 21/- inc. tax,
Available in the following shades
Crystal with Opal, Pink, Cream, Yellow, Green, Blue, Peach, Turquoise, Amber, Ruby Red, Black, also clear designs.

Visit Stand D.8. Olympia B.I.F.

UNIVERSAL BRUSH CO. LTD. LUTON

IT SELLS ON SIGHT!

When your customers see this package of Feen-a-mint—the famous *original* chewing gum laxative—it sells on sight! It is smartly cellophane-wrapped and as display-worthy as ever! Order today, from your usual wholesaler.

Feen-a-mint

WHITE LABORATORIES LTD., MITCHAM, SURREY

Eldon

STAINLESS TWEEZERS
STAINLESS NAILFILES
MANICURE SETS
HAIRGRIPS

If it is QUALITY you are after,

THIS IS IT

A sample order will prove it

QUICK DELIVERIES—COMPETITIVE PRICES

Write for particulars and Illustrated Catalogue to the Manufacturers:

HOLDALLS LIMITED

1-75, FIRST AVENUE, TEAM VALLEY TRADING ESTATE, GATESHEAD-ON-TYNE, CO. DURHAM
Phone and Cables: - - - Low Fell 76932

WHOLESALERS AND EXPORTERS ONLY SUPPLIED

We are still making the BEST of it . . .

PAPER can be made from almost any grade of "scrap"—but as our policy has always been to make only the best grades, lack of suitable raw materials still seriously limits our output.

We would like to thank our trade friends for their understanding during this difficult time, and we aim to continue our service both as to quality of product and competitive price.

Because of fluctuating raw material costs, we shall omit prices from our labels after present printings are exhausted. To assist the trade, complete price lists of our range are available showing purchase tax and profit margins.

And for future reference . . . when materials are more plentiful we hope to offer to the trade several new attractive developments in the field of toilet tissues, facial tissues, paper handkerchiefs, etc.

These are the products of St. Andrew Mills

		RETAIL PRICE (*incl. Pur. Tax*)
ANDREX	The softest Toilet Tissue known made entirely from purest pulp.	1/1 per roll
ANDROL	For those who prefer a glazed paper.	1/1½ ,,
STANEX	Absorbent unglazed paper, not harsh or bulky crepe.	1/- ,,
MARVO		9½d. ,,
SAMARITAN		8d. ,,
ANDREX PAPER KITCHEN TOWELS	Indispensable to the housewife, specially treated paper retains strength when wet.	2/8½ ,,

All prices are under revision and will be published at earliest possible date

Wholesale only

ST. ANDREW MILLS LIMITED

LARKSWOOD · 1014 · 5 · 6 WALTHAMSTOW · E · 17

Now! you can order

AT last we can give you prompt delivery of Juno-Junipah in reasonable quantities. Our increased production has finally caught up with the demand and your orders will have our immediate attention.

JUNO - JUNIPAH

The Woman's Own Health Salts

THOMAS MARNS LTD.
2a, Caxton Street, London, S.W.1
Phone: WHitehall 6310 (B

'SEPTISOL'
for Diaper Rash
NURSERY OINTMENT

★

'SEPTISOL'
for Better Baby Bathing
BABY SOAP

★

Give Profit and Prestige, and ensure Repeat Deman
Constant Advertising makes every Mother Familia
with these Products

'SEPTISOL' LIMITED
28 KENNEDY ST
MANCHESTER 2

THE CHAS. H. PHILLIPS CHEMICAL CO., LTD.

REVISED PRICES

Effective from April 9th, 1948.

	Retail Price Each *Including Tax*	Wholesale Price Per. doz. *Tax Extra*
Medicinal Preparations (*Tax* 33⅓%)		
*'Milk of Magnesia'	1/7	11/3
,, ,, ,,	3/2	22/6
*'Milk of Magnesia' Tablets	1/3	9/-
,, ,, ,, ,,	2/6	18/-
*'Mil-Par' Antacid Lubricant	2/10	20/5
,, ,, ,,	4/9	34/3
*'California Syrup of Figs'	1/6	10/8
,, ,, ,, ,,	2/10	19/9
Toilet Articles (*Tax* 33⅓%)		
* Phillips' Dental Magnesia	1/4	9/5
,, ,, ,,	2/3	16/4
Cosmetics, etc. (*Tax* 100%)		
Phillips' Magnesia Texture Cream	10½d.	4/3
,, ,, ,, ,,	2/7½	13/6
Phillips' Magnesia Cleansing Cream	10½d.	4/3
,, ,, ,, ,,	2/7½	13/6
*'Danderine'	2/3	12/-
,,	4/6	24/-

The Quantity Terms granted in consideration of fourteen days' window or counter display continue on the existing basis.

*Registered Trade Marks.

P.A.T.A.

for the COMMON COLD . . .

P.A.T.A.

During the coming months, there are always colds about. For rapid and effective treatment, your customers will expect to obtain Serocalcin *from stock.* Please maintain a stock for this purpose.

Serocalcin is packed in 20's and 60's

★

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. ENO Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries should be sent.

SEROCALCIN

FOR THE PREVENTION AND TREATMENT OF COLDS

HARWOODS LABORATORIES LTD · WATFORD · HERTS

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2. 61/31

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

MAY 8 1948

revailing restrictions and heavy demand on space necessitate the holding over of a number of dvertisements week by week. It is therefore advisable to send instructions as early as possible. All dvertisements in this section must be prepaid. Box office numbers 2/- extra.

cancies advertised are restricted to persons or ployments excepted from the provisions of the ntrol of Engagements Order, 1947.

SITUATIONS OPEN

For 36 words or less, 3d. for every additional word

RETAIL (HOME)

STANT required, either sex, qualified or unified, for high-class pharmacy. Counter and dispensing. No Sunday or half holiday duty. se send date free, salary required, age, photo, es of testimonials in the first letter. Fare paid any part of the British Isles or Ireland. nond Smith, 2 Cliff Rd., Newquay, Cornwall.

MINGHAM. Qualified manager required, for stablished business, with reasonable dispensing ection. Permanency offered to right person, or female. Salary and commission offered. C. Highfield, Ltd., Bearwood Rd., Smethwick, s.

MISTS, qualified, wanted (male or female), to as branch managers in Fife and Glasgow. Good y and conditions, with entry into superannuati fund after an initial period of service. Interis will be arranged to suit applicants. State experience and when free to The Technical rvisor, Scottish Co-operative Wholesale Society, Retail Drug Department, Bogmoor Rd., dhall, Glasgow, S.W.1.

HAM. Young qualified manager required (must mbitious). Permanency if suitable, with possies of future directorship. Duties, to take charge department and light manufacturing, main h of old-established retail and wholesale firm. y Box 3/490.

NK LESLIE (CHEMISTS), LTD., 25 Catford dway, S.E.6, have vacancy for qualified h manager. Good opportunity for young etic pharmacist. Middle-class family trade. A above with five rooms, kitchen, scullery and oom is available if required. Send usual culars and salary required.

RNSEY, CHANNEL ISLANDS. Wanted, good alified male assistant for counter and dispen- etc. Applicant should be good window dis- man. Permanent and congenial post offered ght man. Write C. Stonelake & Co., 5 Smith Guernsey.

ORTUNITY for qualified chemist desirermanency in progressive post. Must be willnd energetic. Good salary and prospects for ight man. S. London district. Box 3/555.

PLEY & CO., established 1825, have vacancy nqualified lady or gentleman, mainly for disng. Short hours. Very pleasant, highest-class macy. Please write in confidence, experience alary to 36 High St., Wimbledon Common, 19.

PHARMACIST with optical qualification required for busy market town pharmacy. Good salary and commission on profits. Modern house away from shop available. Brownlow, Chemist, Melton Mowbray.

THE BRIGHTSIDE & CARBROOK CO-OPERATIVE CHEMISTS, LTD., have vacancies for branch pharmacists. Permanent progressive position, good conditions and salary; superannuation scheme (with transfer clause) in operation. Apply to the Superintendent Chemist at the Registered Office, 32 Sycamore St., Sheffield, 1.

THE ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD., invite applications from qualified pharmacists as branch managers. Permanent and progressive positions. Superannuation scheme in operation. Write for particulars of salary and commission scheme to the Staff Manager, 113 Powis St., Woolwich, S.E.18.

LOCUMS WANTED

A QUALIFIED LOCUM required (male) for first fortnight in September or nearest. Early Bunn, Ltd., Chemists, 95 High St., Chelmsford, Essex.

BIRMINGHAM. Qualified locum required periods June 14 to 26 and July 19 to August 28. Arrangements could be made to ease work for an elderly person. C. L. Highfield, Ltd., Bearwood Rd., Smethwick, Staffs.

GUY'S HOSPITAL. Assistant pharmacists (locum) required for holiday reliefs, May 31-June 26 and August 9-October 9. Salary £8 8s. per week. Apply Chief Pharmacist, Guy's Hospital, London Bridge, S.E.1.

WHOLESALE

ANALYST, with Ph.C. or equivalent qualification, required for analytical control of incoming, in process and finished materials. Extensive manufacturing experience not essential but applicants should be capable of controlling, organising and accepting responsibility for their work. Position offers good prospects. Write "Director," Hough, Hoseason & Co., Ltd., Atlas Laboratories, Levenshulme, Manchester, 19.

BUCKLEY-BOWKER TABLET CO., LTD., 29 Parkfield St., London, N.1, require representative, parttime, calling on chemists and stores in London district to handle additional lines in medicinal tablets and pills on generous commission terms. Apply by letter.

EXPORT ADVERTISING manager required by firm of Manufacturing Chemists in London. Previous experience essential. Permanent and progressive position. Write giving full details, including age, etc., to Box 0189, Greenly's Ltd., 5 Chancery Lane, W.C.2.

FULL EXPENSES and high commission for representatives required in London area for advertised product. Box 3/564.

REPRESENTATIVE WITH EXPERIENCE REQUIRED

Due to a proposed increase in outside Staff, an experienced Representative is required for Scotland. Residence preferred in either Glasgow or Edinburgh districts.

Prospects are excellent for those possessing the required high-class qualifications, and applicants should be between 30 and 40 years of age. Applications, giving details of past experience, remuneration required and other relevant details, should be addressed, marked "Representative", to:—

J. C. GAMBLES & CO. LTD.,
209/215 Blackfriars Road, London, S.E.1

GENERAL MANAGER required by leading pharmaceutical manufacturing house in the north. Applicant should be 35-40 and have a degree in pharmacy or Ph.C., preferably with experience in chemical manufacture. Duties consist of general management of all departments of a typical wholesale and manufacturing house under the board of directors. Good salary and conditions with excellent prospects for the right man who must possess initiative, energy and strength of character. Full details in confidence to Box 3/562.

HIGH COMMISSION offered to representatives in areas Yorkshire, North Wales, Staffordshire, Shropshire, Hertfordshire, Eire and Southern England for advertised product. Box 3/563.

HOPKIN & WILLIAMS, LTD., require Chemists and juniors for their St. Cross Street Laboratories, E.C.1., for analytical and preparative work.

LONDON REPRESENTATIVE. Good connection with larger retailers and stores. Packed goods and toilets. Interview at our stand, E.45 Olympia. Nor-Sun, Ltd., Moss Side, Nr. Lytham.

MANUFACTURERS of branded sundries for the chemists' trade require Continental representative age 35-40. Applicants must be capable salesmen with successful records. Full details to Box 3/565.

MANUFACTURING CHEMISTS require area agents with good connections amongst chemists for a product in everyday use. Applications with full particulars of present territory and companies represented, Box 3/537.

PILL AND TABLET COATER. Experienced in all types of coating work, resident in London area, required by manufacturing chemists working 5-day week. Apply with full details of past experience, age and salary required, to Box 3/585.

REPRESENTATIVE required by old-established London house for Midland territory. Applicants should have live connection with retail chemists and preferably some previous retail experience, not necessarily qualified. Please state age, experience and remuneration required to Box 3/584.

REPRESENTATIVE required for London an Southern Counties by manufacturers of well-know branded lines selling to wholesale chemists' su dries houses. Applicants should be first-class sale men of proved ability. Full details to Box 3/56

REPRESENTATIVE required by old-established manu facturing house and applications are invited fro men with sales experience in drugs, chemicals an packed pharmaceuticals. The vacancy occurs i North London area and existing sound connectio will be transferred. Box 3/594.

REPRESENTATIVES calling on chemists, hairdresser stores, Co-operatives, required immediately. Se popular quota lines perfumes, cosmetics. Sout Scotland, N. Ireland, N.W. and S.W. Englan Wales, S.E. and Southern England. Generous com mission offered. Existing accounts handed ove Apply Box 3/558.

REPRESENTATIVES for Home and Southern Cou ties wanted to call on caterers, stores, grocers an chemists for new vitamin food product. Attracti commission basis and expenses. State experienc connections and offers to V.X., Box 9546, Pratt Co., 329 High Holborn, W.C.1.

REPRESENTATIVES required by ethical pharmaceu tical house for two areas (1) Lancs, Cheshire, Staff Salop; (2) West and East Riding, Lincs, Derb Notts, Leicester. Must have existing connectio with chemists and previous ethical experienc Salary, expenses and commisison or substantial com mission only, if precedence given. Unlimited pr spects for A.1 men. First-class references require Reply in detail, giving age, experience, etc., in co fidence, to Box 3/321.

REPRESENTATIVES required for (a) Warwick Worcs, Shrops and Staffs, (b) Bristol and S.W Counties, by manufacturing chemists marketin nationally advertised branded line and other pr ducts. Essential qualifications: Well-establishe chemist connection; own car and first-class sale record. Remuneration: Salary, car allowanc hotels and commission. Send full details with co references. Box 3/536.

SALES REPRESENTATIVES required for old estab lished company, to call on chemists and stores i London and the Provinces, to sell well advertise toilet preparations and counter specialities. On men with good connections and experience need ap ply. Write in confidence, stating territories covered to R. Hovenden & Sons, Ltd., 41-53 Britannia Row Islington, London, N.1.

SANITARY TOWELS, packed aspirin tablets. Repre sentatives wanted with connections chemists, store etc., London, South Counties, South Wales. Com mission basis. Write in confidence lines carrie territory covered. Box 3/561.

SOUTH COAST. Old-established manufacturers o toilet preparations require agent calling on che mists, stores and Co-op. societies. Box 3/578.

WALES. Agent required to call on chemist stores and Co-op societies. Old-established manu facturers of toilet preparations offer lines in ur restricted supply. Box 3/577.

WHOLESALE WAREHOUSE situated in Leeds ha a vacancy for a qualified chemist to take charge drug department. Must be capable of dealing wit large volume of business, controlling staff and b a good organiser. Good prospects. Pensio scheme, etc. Apply Box 3/580.

WHY NOT JOIN a progressive organisation? Ex perienced Pharmacists will find conditions of servic both interesting and profitable. There are severa vacancies. Write for an oppointment to discus terms with the Superintendent Chemist, 54 Mary land Street, Stratford, London, E.15.

YOUNG SINGLE MAN offered opening as persona assistant to managing director established progres sive private company, Bucks, B.I.F.; view director ship and financial interest. Knowledge chemists sundries, export trade, an advantage. Comfortabl home available with principal. Write fully Bo 3/560.

RKSHIRE, NORTHUMBERLAND, DURHAM. nt required by old-established manufacturers to lines in unrestricted supply to chemists, stores Co-op societies. Box 3/579.

UNG enthusiastic representative required by firm world repute to call on chemists and other outlets Northern Ireland for medicinal proprietaries, tries, surgical dressings, etc. Apply giving ex- ence, age, whether married, car driver, and sal- required. to Box 3/520.

SITUATIONS WANTED

for 18 words or less, 1d. for every additional word

RETAIL (HOME)

RMACIST (42) desires post as manager, coast country preferred. Succession or partnership initial payment if desired. Widely experi- d. Living accommodation essential. Box 8.

RMACIST, experienced, manager, at present aging good-class busy business, desires change re accommodation is available. Home Counties erred. Interview desired. Please give details first r. Box 3/573.

CKTAKING, quiet and efficient workmanship, 30 years' practical experience. Personal super- n. C. W. Playfoot, 8 Aylward Rd., Merton , S.W.20. Tel. Liberty 4104.

WHOLESALE

ERTISER. Sales manager (39), desires change don area. 15 years' experience. Excellent con- ions with leading wholesale buyers. Good or- ser and used to working on own initiative. Lin- t and widely travelled. First-class references. 3/482.

IA. Young and energetic executive, B.Pharm., comprehensive knowledge of marketing and aganda in India wishes to contact prominent sh manufacturer of chemicals and ethical pro- s with view to appointment in this overseas ket. Has influential trade and professional con- . Available for interview in London. Replies ox 3/569.

H CHEMIST (30), gent, desires representative avelling position in Eire. Excellent connec- keen. Write Box 3/478.

Y (Hall), aged 47, experienced filing clerk, de- clerical position, preferably filing work. don. Box 3/583.

RMACIST, wide experience retail, including cal propaganda, thorough knowledge office or- ation, salesmanship, commercial art, returning life from military service in July, will con- appointment where advancement and scope capabilities can be assured. Box 3/552.

RESENTATIVE, excellent connections chemist's s in Surrey, Sussex, Kent, South London, seeks ional line. Reputable house only considered. 3/593.

RESENTATIVE with 20 years' connection che- and hairdressers in Eastern Counties, would me association with well known manufacturer holesale house. Car owner, resident Suffolk. 3/587.

RESENTATIVE, 30, energetic and ambitious, es progressive position with firm of repute. llent connection chemists Yorkshire area. Box 1.

RESENTATIVE with extensive connection in shire, Northumberland and Durham (whole- and retail). Highest credentials, smart appear- age 30, seeks situation with house of repute. 3/590.

S EXECUTIVE. An opportunity occurs for a ng manufacturer of toilet and fancy goods to re the services of an energetic sales executive wide and long-established connections in West At present sales manager, but seeks change. es in confidence to Box 3/576.

APPOINTMENTS

KENT COUNTY COUNCIL

ASSISTANT PHARMACIST

Applications are invited for the following appointment at the COUNTY HOSPITAL, FARNBOROUGH, Nr. BROMLEY.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) either sex. Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,
Clerk of the County Council.

County Hall,
Maidstone.
14th April, 1948.

KING GEORGE HOSPITAL, ILFORD, ESSEX.

Applications are invited for the post of Assistant Pharmacist at the above Hospital. Appointment to commence July 1, 1948, with salary according to the J.N.C. Scale.

Applications with full particulars to be made to the Secretary and Superintendent.

METROPOLITAN HOSPITAL

KINGSLAND ROAD, E.8.

ASSISTANT in Pharmaceutical Department required. Previous hospital experience an advantage. Pharmaceutical qualification preferred. Hall Certificate may be considered. J.N.C. Salary Scales and Federated Superannuation Scheme in force. Hours 9-5. Lunch provided. Apply, giving age, qualification, experience and references to the House Governor.

THE PRINCESS LOUISE KENSINGTON HOSPITAL FOR CHILDREN, ST. QUINTIN AVENUE, W.10.

(Affiliated to St. Mary's Hospital).

Pharmacist required (full-time) to take sole charge of Dispensary and to start duties as soon as possible.

Salary according to J.N.C. Scale, commencing at not less than £420. Meals provided.

Applications with copies of three testimonials to the Secretary-Superintendent.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at ST. HELIER COUNTY HOSPITAL, Carshalton.

Commencing salary on grade £370 x 15-£430 x 20-£450 p.a., inclusive.

Applications in writing, stating age, qualifications and experience, with copies of not more than three recent testimonials, should be sent to the Medical Superintendent of the Hospital.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENTS and BROKERS with comprehensive connections with industry, trade and shippers required by leading importers to sell edible, technical gelatines and glues. Box 3/551.

AGENTS wanted all over the country calling on wholesale chemists, Co-ops., grocers and sundriesmen to carry additional nationally advertised lines. Commission basis. Write, giving area covered, and rough details of present lines carried, to Box 3/280.
AGENTS wanted to call on chiropodists only. Trade Marked product in constant need by the profession, well proven, without competition. Success assured. Generous commissions and reserved territories (Great Britain only) available. Box 3/544.
CREATIVE BELFAST AGENTS invite agencies for Ulster and Eire. Box 2/608.
MANUFACTURERS require established agents to introduce entirely new foot comfort line preparatory to advertising. Excellent opportunity to get in on the ground floor. Generous commission terms. Exclusive territory in the Midlands and Scotland available. Box 3/571.
OPPORTUNITY for first-class representative in perfumeries, and only those with long-standing connections to chemists, stores and hairdressers wanted for marketing an addit. line of a first-class product. Vacancies open: Midlands, Scotland, Eire. Box 3/589.

BUSINESSES WANTED

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BUSINESS WANTED. £1,200 down, balance by instalments, or partnership with view to succession, by young pharmacist. Living accommodation over shop or near. London or Home Counties. Confidential. Apply Box 3/586.
WANTED, any time during the remainder of the year, chemist's business, with accommodation, situated in Bournemouth or near, one requiring a qualified man in addition to owner preferred. Buyer would buy property or lease same. Box 3/475.

BUSINESSES FOR DISPOSAL

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DRUG AND SURGICAL goods shop, main road, Brighton centre, well-furnished and well-stocked, lock-up on lease. Splendid opportunity at £1,500 all in. For appointment 'phone Hove 6321.
DRUG, TOILET AND COSMETIC STORE for sale, situated in a busy north London market; lease 21 years. Price for goodwill, fixtures and fittings, £3,000 S.A.V. Details from Perry & Seymour, Estate Agents, 21 Stoke Newington Rd., N.16.
EAST LONDON. Old-established group of retail businesses for disposal with wholesale, including P.A.T.A. membership. Three freeholds, remainder of tenure secure. Retail turnover about £1,000 per week. Price required for goodwill, £14,500, in addition freehold, £7,500. Stock and fixtures at valuation. Apply with banker's reference. Box 3/582.
TO CHEMISTS AND DRUGGISTS. For sale by private treaty as a going concern, the old-established business known as Swinnertons Drug Store, 204 Chepstow Rd., Newport, Mon. The property is freehold, with an attractive shop, close to the Maindee shopping centre and situated in a most convenient position for this class of business. For full information apply T. Parry & Son, F.A.I., Auctioneers, 22 Stow Hill, Newport, Mon. (Tel. 3308.)
TULSE HILL-HERNE HILL. Excellent chemist's business with scope for optics. Owner going abroad. Last year's turnover £4,400. Goodwill, etc., £2,400, s.a.v. (approx. £600). £2,250 for lease of premises with good living accommodation, unexpired term 78 years. Ground rent £18 p.a., or might let. Apply G. Mann & Co., 1463 London Road, Norbury, S.W.16. Pollards 2282/3.
WHOLESALE CHEMIST Distributing Business for disposal returning £3,000 a month exclusive of tax. Excellent profits. Price to include heavy stock, motor vehicles, plant and freehold property, £22,500. Valuation terms considered. Apply to Box 3/581.
WHOLESALE SUNDRIES, E. London, old-established, 3 vans, cars, etc. Turnover last year £35,000, good nett profits. Stock about £8,000; property, £3,000, or could be leased. Fix. fittings, vans, etc., £1,500; goodwill, £10,000. Principals only. Box 3/570.

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FOR A FEW SHILLINGS weekly we will do all your book-keeping, income tax returns/negotiations and accounts, etc. Write for booklet explaining our unique service for the small business. Executives (London), Ltd., Dept. 26, 213 City Rd., London, E.C.1.
MANUFACTURING CHEMISTS have facilities and space available for the manufacture, packing and bottling of domestic, toilet and industrial products. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Tel.: Reliance 3435.
MANUFACTURING CHEMISTS have facilities available for the manufacture and/or packing of toilet, medical and domestic products into bottles, pots, boxes, or tubes, and can dispatch the same direct to retail customers if desired. Box 3/518.

MISCELLANEOUS SALES

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ASPIRIN granules and crystals. 3 tons for sale. Offers to Box 3/463.
FOR SALE. 30 gross 1½-oz. bottles with bakelite caps. 20 gross 1-oz. opal jars with pink unishell caps. 40 gross 2-oz. clear jars with bakelite caps. 500 only fancy oval jars with bakelite caps. 1-oz. clear squat jars, about 75 gross altogether, some with metal caps, but the majority without. Complete quantity, £80. Box 3/568.
GLYCERYL MONO STEARATE, immediate supplies available. Box 3/575.
GOVT. SURPLUS.: Ammon. Chloride and Nitrate; Boric Crys.; Calc. Chloride; Caustic; Developer F. and D. 50; Pure Glycerine; Hydroquinone; Lead Nitrate; Potass: Alum, Bisulph, Hydrox, Iodide, Sulph; Sodium: Bisulph, Hypo, Nitrate, Potass, Sulph; Stearic; Sulphuric, etc. Inspection and offers, A.C., Ltd., 15 Lawrence St., Northampton.
OIL OF LEMON (Sicillian). 100 lb. in sealed drums available for immediate delivery. Box 3/572.
YOHIMBINE, English manufacture, for sale. Best cash offer considered. Write Box 3/534.
5-CWT. Phenolphthalein B.P. Offers to Box 3/567.

WANTED

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BOTTLES. 26-oz and 13-oz. wine or champagne bottles required. Box 1/853.
GLYCERINE urgently required. Current price paid for small or large quantities. Box 3/509.
LACTOSE, B.P., glycerine, B.P., vanillin, soda ash, caustic soda, flake or solid, bleaching powder, and offers of any other chemicals invited. Write Box 3/489.
STEARIC ACID, triple pressed, required, any quantities. Box 3/574.
STEARIC ACID, triple or good quality double-pressed required in large or small quantities. Offers to Box 3/517.
STEARIC ACID, triple pressed, required in large quantities. Box 147/850.
WANTED. Phenacetin, glycerine, required by manufacturing chemists. Offers to Box 2/307.

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2. 65/31

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